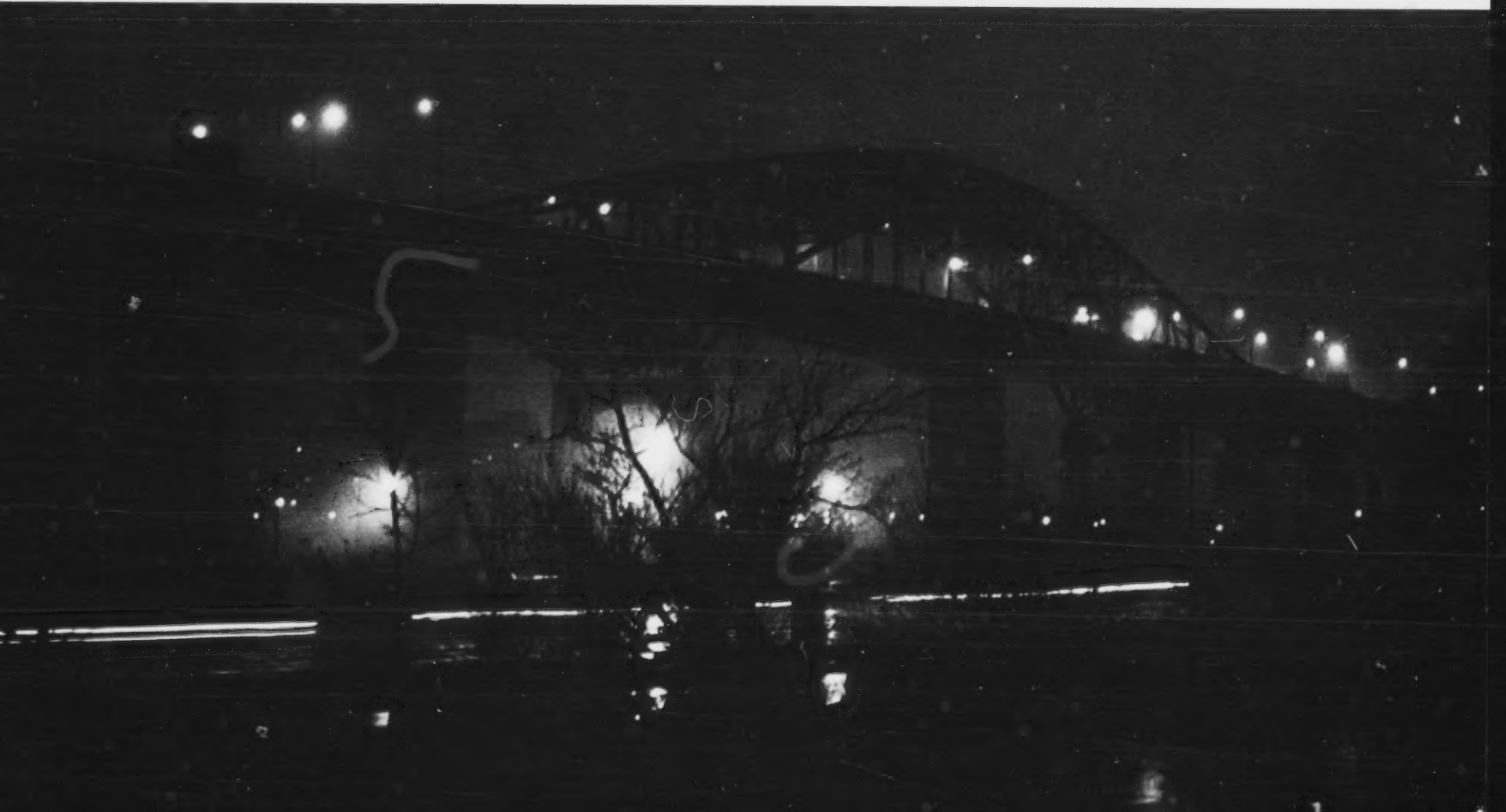




Southern Highways Program

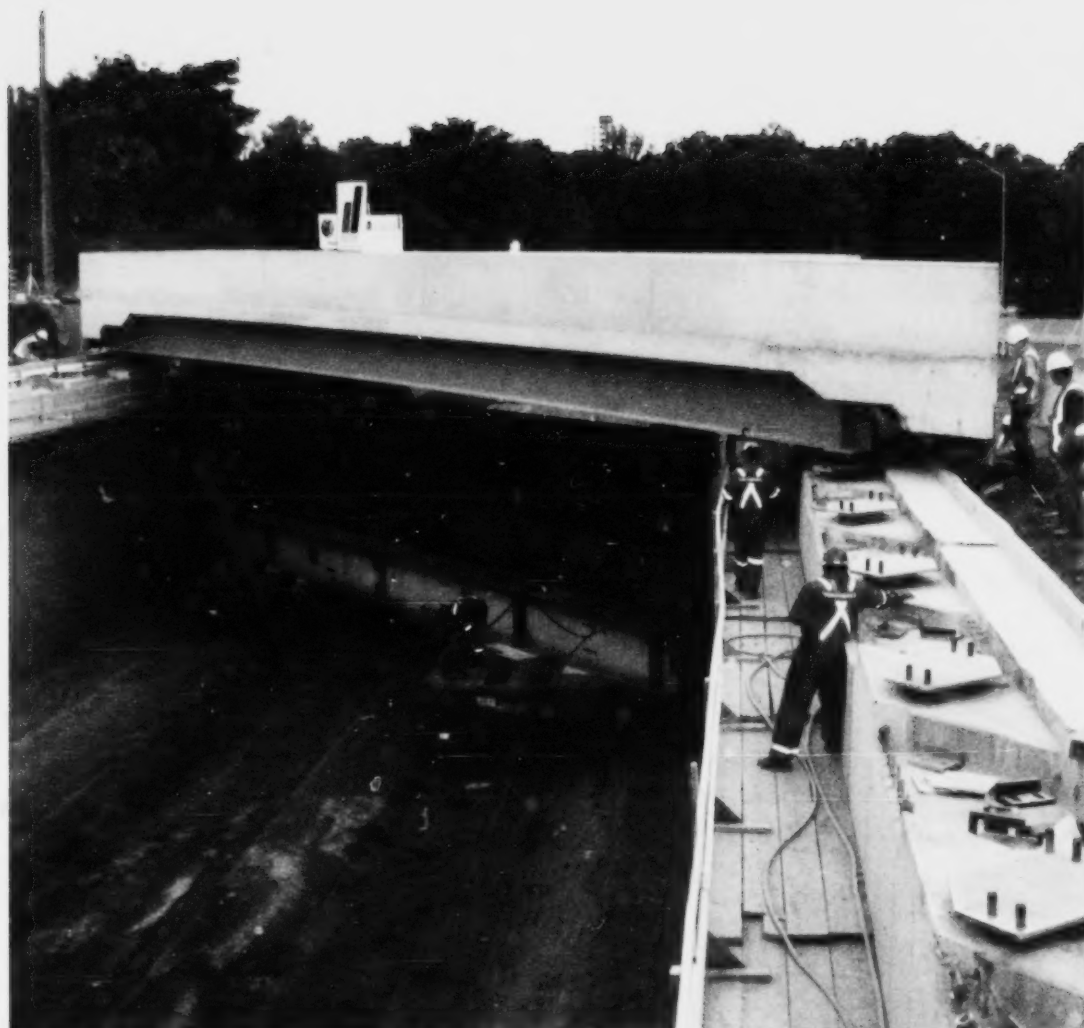
2008 to 2012



Burlington Skyway (front cover)

A late evening photo of the Burlington Bay Skyway.

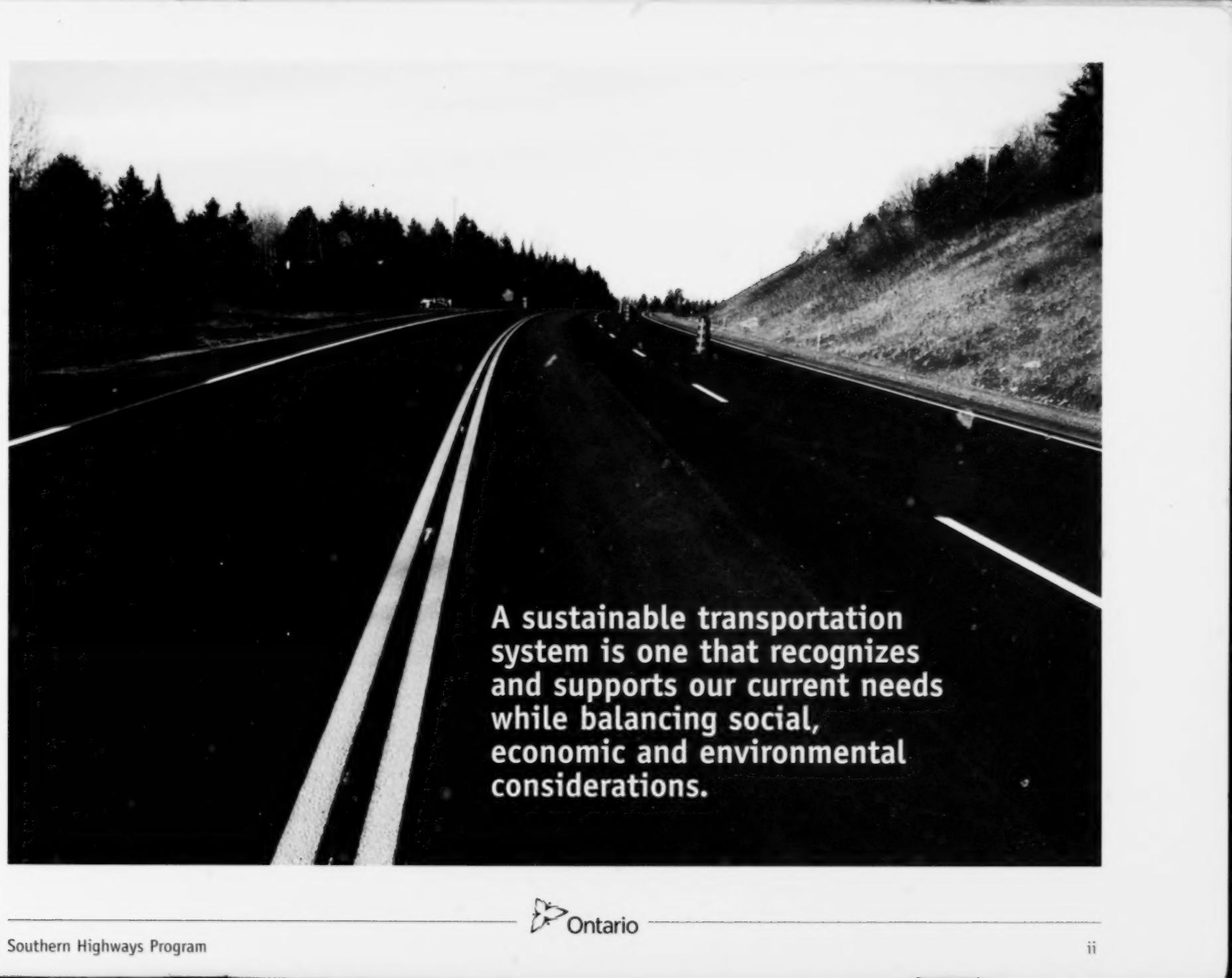
Photo by Lance Dutchak



Highway 417/Ottawa Queensway, Island Park Bridge, section being moved into place

Table of Contents

Overview and Accomplishments	1
2007 Highlights & Completed Construction	3
2008-2012 Southern Highways Program . . .	9
2008 Highlights and Planned Accomplishments	9
High Occupancy Vehicle Lanes (HOV). . .	12
Borders & Gateways.	15
Partnerships	18
Expansion Projects	20
2008-2012: Southern Ontario	20
2008-2012: Greater Golden Horseshoe . .	24
Rehabilitation Projects	28
Central Ontario:	
2008, 2009, 2010-2012	28
Eastern Ontario:	
2008, 2009, 2010-2012	36
Southwestern Ontario:	
2008, 2009, 2010-2012	44
Planning for the Future	51
Projects beyond 2012	52
The Highway Planning Process	54



A sustainable transportation system is one that recognizes and supports our current needs while balancing social, economic and environmental considerations.

Overview

Building A Better Ontario

Transportation is important to every Ontarian and equally important to Ontario's well being. A safe and efficient transportation network is crucial to Ontario's economic prosperity and quality of life.

By improving and maintaining Ontario's transportation infrastructure we are creating jobs, supporting growing urban centres, helping businesses compete in the global marketplace and keeping Ontario families safe.

Ontario recognizes that transportation and the environment are closely connected. That is why we are committed to promoting sustainability in transportation planning to tackle congestion, accommodate growth and keep goods and people moving. A sustainable transportation system is one that recognizes and supports our current needs while balancing social, economic and environmental considerations.

The decisions we make today will affect future generations. This is why we must plan and use our highways more wisely, encourage people to use public transit and explore alternative fuels and technology to reduce greenhouse gas emissions and protect the environment.

For example, 100 per cent of reclaimed pavement is made available to our contractors, allowing them to combine new and recycled asphalt for paving. Significant portions of Ontario's stone, sand and gravel needs are met with recycled, re-used or non-traditional

materials such as roofing shingles, glass and ash. As a result, Ontario is saving energy, conserving natural materials and reducing greenhouse gas emissions.

By balancing social, economic and environmental considerations, Ontario is working to ensure a safe, prosperous and environmentally responsible future for all those who live and do business in Ontario.

The Southern Highways Program

This document presents the most recent annual update of the five-year construction program for Southern Ontario highways, keeping Ontarians apprised of where and when highways will be improved. The first Southern Ontario program was published in 2006, in conjunction with the 2005 *ReNew* Ontario, a \$30-billion plan to strengthen Ontario's economy and communities. The *ReNew* Ontario plan set out a \$3.4-billion program for the renewal and expansion of southern highways over five years.

The Southern Highways Program is published annually to provide a clear understanding of where and how tax dollars are being spent.

This year, the Ontario government will invest a record amount of more than \$2 billion to repair and expand highways, roads and bridges across the province, with \$927 million designated for Southern Ontario highway construction.

Bridges are the backbone of Ontario's transportation network as they connect communities and provide access to economic opportunities. That is why the government is investing an additional \$284 million over five-years for bridge repair and replacement in Southern Ontario – with \$19 million expected to be invested this year.

The 2008-2012 Southern Highways Program lists all major highway projects already under construction or starting this year. The program also provides a five-year outlook, listing projects planned through to 2012. Several hundred smaller valued projects, not listed in this document, will also be completed in 2008.

We will continue to do our part and to pursue every opportunity to discuss new funding partnerships with the federal government. By working together, we will create a highway system capable of supporting economic growth and prosperity across Ontario for decades to come.

2007 Southern Ontario Accomplishments

Building of new highways	53 km
Building of new bridges	6
Repairing highways	192 km
Repairing bridges	74

2007 Highlights & Completed Construction

In 2007, the Ontario government invested \$899 million to expand and repair southern Ontario highways. Some of the many highway projects completed in 2007 are highlighted below.

A list of all major southern Ontario highway projects completed last year has also been included for reference.

Rapid Bridge Replacement, Highway 417/Ottawa Queensway, Island Park Bridge

On August 11, 2007, on the busy Highway 417/Ottawa Queensway, the entire Island Park Bridge was successfully replaced in a landmark 15-hour operation; a process that usually takes two to three years using conventional construction methods. Highly specialised heavy lift equipment called self propelled modular transporters, were used to move the old bridge sections out and the new ones into place. Each bridge section measures 25 by 18 metres, weighs about 650 tonnes, and was constructed off-site away from the highway. This was a first for Canada, although rapid bridge replacement has been used already in Europe and the U.S.

Rapid bridge replacement saves considerable time and money and improves safety by off-site construction and elimination of traffic delays and congestion associated with conventional methods.

The ministry is planning other rapid bridge replacements along the Ottawa Queensway at Clyde Avenue (completed August 2008), Carling Avenue westbound and eastbound, and Kirkwood Avenue.



Getting ready to move the old bridge out



New bridge section in transit



Completed in 15 hours

2007 SHOWCASE PROJECT:

2007 Highlights & Completed Construction

Resurfacing of Highway 60, Eastern Ontario

Highway 60 is one of many examples of pavement recycling used in repaving Ontario highways. This method pulverizes existing pavement and blends it with underlying gravel, conserving all original road materials, thus saving energy and reducing emissions. The resurfaced road has the same driving smoothness as new asphalt.



Recycling underway



Completed resurfacing

Six-laning of Highway 401, Cobourg to Port Hope

The widening of Highway 401 from four to six lanes, between Cobourg and Port Hope was opened to traffic in 2007. Other improvements include: reconstructed County Road 28 and Burnham Street interchange ramps; Hope-Hamilton Boundary Road underpass improvements; improved culvert and drainage features; new traffic signals; upgraded lighting; upgraded signs.

Expansion of this section of Highway 401, a vital economic link, addresses operational and capacity concerns within the corridor.



Nearing completion, prior to final paving

The ministry also employs practices to extend pavement life and reduce the need for new materials. Ontario is conducting trials to incorporate non-asphalt recycled materials into pavements, such as finely ground tires and roofing shingle scrap.

2007 Highlights & Completed Construction

Six-laning of Highway 401, Woodstock to Cambridge: Phase 2, Highway 403 to Oxford Road 2

Six-laning 4.6 km of Highway 401, from Highway 403 to Oxford Road 2, was completed in 2007. Along with widening the highway one lane in each direction, construction included: reconstructing Towerline Road and Oxford Road 2 interchange ramps, replacing Towerline Road underpass and CNR overpass, rehabilitating Oxford Road 2 overpass; traffic signals and lighting improvements; upgraded signs and addition of overhead signs; new guiderail, replacing median barrier and planting trees for snow drift control. Improvements increase capacity and enhance the safety of this vital corridor.



Eschelon paving

Widening of Highway 406, Thorold Beaverdams Road to Port Robinson Road

Construction included 5.6 km of widening to four lanes, upgraded lighting, a new interchange with a new bridge for Regional Road 20, and widening Regional Road 20. Ontario and the Region of Niagara cost-shared the widening of Regional Road 20 from two to four lanes over Highway 406.



Highway 406 and new bridge at Regional Road 20

Extension of Highway 410 Phase 2, Bovaird Drive to Mayfield Road

Highway 410 extension is a new 8.5 km, four-lane divided highway extending from Bovaird Dr. to Highway 10. Once completed, the Highway 410 extension will take up to 60,000 vehicles off local roads and improve commuting time.

Construction of the section extending Highway 410 to Mayfield Road began in 2006 and lanes in both directions between Bovaird Drive and Mayfield Road were open to traffic August 2007. Work also includes lighting, drainage and a new interchange at Mayfield Road.



Highway 410 Extension

2007 Completed Expansion Projects

Southern Ontario

Hwy	Location	Type of Work
Eastern Ontario		
417 - QOW	Hwy 416 to Anderson Rd. – Island Park Dr. overpass, Ottawa	Bridge deck replacement
Southwestern Ontario		
8	Kitchener-Waterloo Expressway – Fairway Rd. to Grand River	Four to eight lane widening
401	Homer-Watson Blvd. (partnership with Regional Municipality of Waterloo)	Interchange improvement
401	Woodstock to Cambridge – Hwy 403 to Oxford Rd. 2, Phase 2 of 3	Four to six lane widening
401	Windsor to Tilbury – Phase 3 of 5 – Essex Rd. 27 to Hwy 77 (Strategic Highway Infrastructure Fund)	Four to six lane widening
Northeastern Ontario		
69/400	Baxter Rd. Twp. Transfer Site – Service Road	Service Road

Greater Golden Horseshoe

Hwy	Location	Type of Work
Central Region		
401	Westney Rd. to Salem Rd., Ajax	Widening
404	Sheppard Ave. to Beaver Creek, northbound lanes, Toronto/York Region (High Occupancy Vehicle Lanes)	Widening
406	Beaverdams Rd. to Port Robinson Rd., Thorold/Welland	Two to four lane widening
QEW	Glendale Ave. to Mountain Rd., Niagara Falls (Border Infrastructure Fund)	Four to six lane widening
QEW	Henley Bridge, St. Catharines (Border Infrastructure Fund)	Four to six lane widening
QEW	Sixteen Mile Creek Bridge, Oakville (High Occupancy Vehicle lanes)	Bridge widening
QEW	Bronte Creek Bridge, Oakville (High Occupancy Vehicle lanes)	Bridge widening
Eastern Region		
401	Cobourg to Port Hope – Northumberland Rd. 28 to Burnham St.	Four to six lane widening

2007 Completed Rehabilitation Projects

Central Ontario

Hwy	Location	Type of Work
Central Region		
12 & 7	Hwy 48 north, Beaverton & Hwy 7A, Manchester	Resurfacing/intersection improvements/traffic signals
26	Horseshoe Valley Rd., (County Rd. 22), Simcoe	Intersection improvements/traffic signals
401	Brock Rd. to Rougemount Dr., eastbound express lanes, Pickering	Resurfacing
401	Leslie St. interchange, Toronto	Noise barrier
401	Jane St. to Kipling Ave., eastbound collector lanes, Toronto	Bridge rehabilitation/reconstruction
401	Jane St. to Kipling Ave., westbound express lanes, Toronto	Bridge rehabilitations/reconstruction/ operational improvements
403	King St. to Wilson St., Hamilton	Resurfacing/operational improvements/noise barriers
405	QEW to Toll Booth	Queue end warning
406	Westchester Ave. & Fourth Ave., St. Catharines	Interchange improvements/traffic signals/overhead signs
QEW	Garden City Skyway Bridge, St. Catharines	Pier repairs
QEW	Cawthra Rd. interchange, Mississauga	Ramp improvements
QEW	Mountain Rd. to Hwy 420, Niagara	Resurfacing
Northeast Region		
11	North Muskoka River Bridge, south of Bracebridge	Bridge rehabilitation
11	Hwy 11 and Muskoka Rd. 117, Bracebridge	Culvert replacement and three culvert rehabilitations
17	Stonecliffe easterly to west of Rolphton	Resurfacing/passing lanes
60	Long Lake Creek, east of Hwy 35, Oxtongue	Culvert rehabilitation
400	Port Severn to Muskoka Rd. 38	Reconstruction

continued...

2007 Completed Rehabilitation Projects

Southwestern Ontario

Hwy	Location	Type of Work
Southwest Region		
3	Big Otter Creek Bridge, Tillsonburg	Bridge rehabilitation
6	Wellington Rd. 51, 22 and Nichol Twp. Rd 2-3, south of Fergus	Intersection improvements/commercial vehicle inspection facility
7	Waterloo Rd. 1 to Waterloo Rd. 5, New Hamburg	Resurfacing/bridge rehabilitation/intersection improvement
10	Markdale to Chatsworth	Resurfacing/bridge rehabilitation
23	Palmerston to Harriston	Reconstruction/bridge rehabilitation
24	South Jct. Glen Morris Rd., Foot Bridge Rd., Scenic Dr. & Blue Lake Rd., north of Brantford	Intersection improvements
40	Confederation Line, Sarnia	Intersection improvements
403	Garden Ave. (partnership with Brantford)	Interchange improvement
403	Garden Ave. to Brant County/Hamilton Boundary, Brantford	Resurfacing
Eastern Region		
2	Thousand Island Parkway Bridge, Gananoque	Bridge rehabilitation
17	Arnprior to Renfrew	Resurfacing
28	Trent Canal and Burleigh Bridges, north of Peterborough	Bridge rehabilitations
28	Young's Point Bridge, north of Peterborough	Bridge rehabilitation
34	Greenlane Rd. to Hawkesbury	Intersection improvements/resurfacing/bridge rehabilitation
37	Blessington Rd., north of Belleville	Intersection improvements/culvert rehabilitation
60	Killaloe to Deacon	Resurfacing
60	Barry's Bay to Arbor Vitae Rd.	Resurfacing/truck climbing lane
115	Tapley Quarter Line to Hwy 7, Peterborough	Reconstruction/paved shoulders
132	Renfrew to Renfrew Rd. 5	Resurfacing
401	Hoople Creek & Hoasic Creek Bridges, Morrisburg	Bridge rehabilitations
401	Hwy 137 to Mallorytown	Safety improvements
417	Limoges Rd. to Casselman	Resurfacing/bridge rehabilitations
Parkway - 137	Thousand Island Parkway, east of Gananoque	Resurfacing

2008 Highlights & Planned Accomplishments

In 2008, the Ontario government plans to invest \$927 million to expand and repair highway infrastructure in Southern Ontario. Some of the many highway projects starting this year are highlighted below and in the following pages. Separate sections contain the maps and lists of all major southern highway projects underway or starting between 2008 and 2012. Major highway projects are generally greater than \$1 million in value; the ministry also contracts hundreds of smaller value highway projects that are not included in this document. These projects include spot improvements, strategies to maintain components in good repair until a major investment is appropriate, or minor work to improve highway operations.

Due to unpredictable aspects of highway planning and construction, the program outlined in this document may vary slightly. Factors such as property acquisition, weather, environmental considerations and approvals, traffic staging, design changes and unexpected field conditions can affect construction schedules. As well, all projects are subject to approvals under various pieces of legislation, including the Ontario Environmental Assessment Act. Each year the government prepares a new budget which may impact funding. It is important to recognize that these factors may impact project timing.

PLANNED ACCOMPLISHMENTS:

Six-laning of Highway 401, Woodstock to Cambridge Oxford Road 2 to Drumbo Road (Phase 3)

This is the third and final project that completes the widening of Highway 401, from four to six lanes, between Woodstock and Cambridge. In addition to widening 15.3 km of highway, improvements include: median barriers; emergency access roads at Oxford County Road 22; interchange reconstruction at Drumbo Road; and rehabilitation and/or widening of five structures. These improvements will improve traffic operations and enhance safety. Completion is expected by 2011.

In co-ordination with the University of Waterloo and the Centre for Pavement and Transportation Technology, Ontario is incorporating an 8.0 km test section of Perpetual Pavement into this project. Perpetual Pavement is a flexible pavement system that is designed with a thick pavement structure to resist cracking and rutting, to last 50 years or more with only periodic surface renewal.

Rehabilitation of Highway 6, Fergus to Arthur Arthur to Mount Forest

Rehabilitation of the Arthur to Mount Forest section of Highway 6 includes: repaving 12.5 km of highway; replacement of Farley's Creek and Four Mile Creek bridges; repair of Smokey Creek and Mitchell Creek bridges; concrete culvert repairs; and new passing lanes. These improvements will help ease traffic congestion along this corridor. The project is currently scheduled to be complete in 2009.

This project, and the previous project on this corridor from Fergus to Arthur, both use in-place full depth reclamation, an efficient pavement recycling method that increases pavement strength and conserves energy and aggregates.

2008 Southern Ontario Planned Accomplishments

Building of new highways	113 km
Building of new bridges	18
Repairing highways	222 km
Repairing bridges	62

2008 Highlights & Planned Accomplishments

Four-laning of Highway 7, Highway 417 to Carleton Place: Jinkinson Road to Ashton Station Road (Phase 2)

Work will begin this year on the second phase of four-laning Highway 7, between Jinkinson Road to Ashton Station Road. For the most part, road widening will take place to the south side of the highway and the existing two lanes will become the westbound lanes on the new freeway. Construction involves two interchanges at major cross roads, Dwyer Hill Road and Ashton Station Road, and building five new structures including two Highway 7 underpass bridges at Ashton Station Road and Dwyer Hill Road, the bridge crossing at North Service Road / Lavallee Creek and culverts at Highway 7 and the TransCanada Trail, including removal of the existing CPR overhead structure. Work also includes installation of lighting and drainage improvements. A new carpool lot will be built at Dwyer Hill Road. Completion is expected by 2010.

Resurfacing of Highway 7, Lansdowne Street to East of Drummond Line, Peterborough

In order to address poor pavement conditions and increasing seasonal and commuter traffic volumes, Highway 7 will be resurfaced, with work beginning this year. Construction includes: pavement widening to provide a continuous two-way left turn lane, intersection improvements, upgrading traffic signals, signs and lighting, drainage improvements, and upgrading the commuter parking lot. Completion is expected by 2009.

Bridge Replacement, Highway 417/Ottawa Queensway, Clyde Avenue Bridge

This summer, the ministry used rapid replacement technology for the second time at the Clyde Avenue Bridge on Highway 417. As done with the Island Park Bridge in Ottawa last year, the bridge was constructed off-site at the City of Ottawa Snow Disposal Facility, located close to the existing bridge site. After bridge construction, rapid lift technology was used to remove the existing bridge, then transport the new bridge to the site. Work also included installation of lighting, noise wall replacement, drainage improvements, median barrier replacement and landscaping. Work was completed August 2008.

2008 Highlights & Planned Accomplishments

Rehabilitation of Highway 409, Highway 427 to Highway 401, Toronto

Starting this year, work will begin to rehabilitate Highway 409. Roadwork includes repairs to the concrete base of the main lanes, resurfacing of the entire length of all lanes, reconstruction of the median to install new barriers and lighting, and improvements to drainage. This project also includes extensive bridgework, with repairs to 13 roadway structures, including: Highway 409 over Mimico Creek, Attwell Drive overpass, Highway 27 underpass, City View Drive underpass, CN Subway – Highbury Spur Line over Highway 409, CN Subway – Aylmer Spur Line over Highway 409, Iron Street underpass, Martin Grove Road underpass, Shaft Road underpass, Kipling Ave. overpass, and the Highway 409 ramps to Highway 401.

Construction also includes the installation of nine new overhead signs, replacement of traffic signals at four locations and other lighting improvements, as well as installation of automated traffic management equipment.

Generally, repairs to driving lanes will take place during off-peak hours. Repairs requiring multi-lane closures will be carried out at night. In both cases, movable concrete barrier will be used to provide the most driving lanes at all times for the travelling public.

Rehabilitation of Highway 427, QEW to Highway 401

Work will begin this year on rehabilitation of the northbound express lanes between QEW and Highway 401. Bridgework includes the repair or replacement of several bridge decks, including the three structures along Ramp QEW/W – 427N, as well as the North Queen Street, CP Rail, Ramp QEW /E – 427N, and Dundas Street structures. The Bloor Street, Rathburn Road and Burnhamthorpe Road underpasses will undergo repairs. Road construction includes road repairs using precast concrete slab replacement methods in some sections, top course paving along the entire length, and improvements to sewers and drainage structures.

High Occupancy Vehicle (HOV) Lanes

To address climate change, improve air quality and reduce congestion, Ontario is making investments that offer alternatives to driving alone; High Occupancy Vehicle (HOV) lanes represent a proven alternative. HOV lanes move more people in fewer cars; easing congestion, shortening commute times and reducing greenhouse gas emissions per person travelling.

A network of HOV lanes is being planned on highways across the Greater Golden Horseshoe and in the Ottawa area over the next 25 years. Work is underway or about to begin on a number of busy commuter corridors in Ontario.

CORRIDORS NOW UNDERWAY OR COMPLETED:

Highway 404, Toronto

Construction of northbound HOV lanes between Sheppard and Beaver Creek, was completed in 2007. This project complements previous work, providing drivers with HOV lanes that run 7 km in both directions along this section of Highway 404, along with an additional 4 km of southbound HOV lanes to Highway 401. A commuter parking lot in Aurora is being built to support the use of HOV lanes through carpooling.

QEW, Oakville to Burlington

Two projects were completed last year to widen the Bronte Creek and Sixteen-Mile Creek bridges in advance of HOV lane construction. Work to install HOV lanes on two sections of the QEW, from Third Line to Trafalgar Road and Burloak Drive to Third Line, is underway. An additional project, between Guelph Line and Burloak Drive will now begin in 2009. When all three road-widening projects are completed in 2011, HOV lanes will run 16.3 km in both directions between Guelph Line and Trafalgar Road.



High Occupancy Vehicle lane (HOV)



Newly opened HOV lanes on Highway 404



QEW/Bronte Road interchange in Oakville looking east, with completed Bronte Creek Bridge and beginning stages QEW widening and new QEW/Bronte Road interchange

High Occupancy Vehicle (HOV) Lanes

Highway 417, Ottawa

Work to widen Highway 417, including construction of HOV lanes, is underway. The first project, between Highway 416 and Eagleson Road, began last year. A second section, from Eagleson Road to Highway 7, is scheduled to begin in 2009. Completion of both sections will result in HOV lanes running 8 km in both directions, with a portion expected to be open to traffic as early as 2009.



Widening Highway 417, including HOV lanes underway

UPCOMING HOV PROJECTS:

Highway 400, Vaughan

HOV lanes are planned for Highway 400, to run 7 km in both directions between Major Mackenzie Drive and King Road. Construction of a new interchange at King Road will begin in 2008, in advance of building HOV lanes. Construction of the HOV lanes is scheduled to start in 2010, with lanes open to traffic by 2012.

Highway 427, Toronto

HOV lanes are planned for Highway 427, running almost 7 km in both directions between Highways 409 and 407. Construction is expected to begin in 2010 and be complete by 2012.

For more information on HOV lanes,
please visit: www.ontario.ca/hov

Borders and Gateways

Our border crossings are vital to both the Ontario and national economies. Every year, approximately 42.5 million vehicles cross the Ontario-US border. This includes nearly 8.5 million trucks. Of the \$1.2 trillion worth of goods that move along Ontario's strategic trade corridors each year, \$256 billion traverses international bridge crossings linked to Ontario highways. Canada's three busiest crossings – Windsor, Fort Erie and Sarnia – account for over 60 per cent of Canada's road trade with the U.S.

Over the next two years, the Ontario government has partnered with Quebec and the federal government to develop an infrastructure policy and strategy to support international trade and economic growth for the future through the Continental Gateway initiative. This initiative includes strategic ports, airports, intermodal facilities and border crossings as well as essential road, rail and marine infrastructure.

Through strategic investments in our borders and gateways and in partnering with others, the Ontario government is committed to improving traffic flow at all of Ontario's gateways to keep people moving safely and efficiently, to help build prosperity for Ontario families and to strengthen our economy.

The Ontario and Canadian governments are sharing in the cost of all projects through the Border Infrastructure Fund, unless otherwise noted.

WINDSOR GATEWAY:

Highway 401, Windsor to Tilbury

Widening and other work along the 46.5 km of the Windsor to Tilbury corridor will improve safety and traffic flow on one of Ontario's most important trade corridors.

Phases 1, 2 and 3, to six-lane Highway 401 from Essex Road 42 to Highway 77, Puce Road to Manning Road, and Essex Road 27 to Highway 77, are already complete.

The Ontario and Canadian governments cost-shared the first three phases of widening under the Strategic Highway Infrastructure Program. Phases 4 and 5 will be cost-shared under the Border Infrastructure Fund.

Phase 3, Essex Road 27 to Highway 77 - completed

Phase 3 of construction to widen this section of Highway 401 from four to six lanes began in spring 2006, and was completed in fall 2007. Along with 9.8 km of highway widening, improvements included: median barrier installation; replacing the St. Joachim Road (French Line Road) Bridge; rebuilding the ramps and adding lighting at the interchange; rehabilitating and widening the Ruscomb River Bridge; rehabilitating two underpass structures; and upgrading the Windsor South truck inspection station.

Phase 4, widening from Highway 3 to Manning Road

Phase 4, widening from four to six lanes on Highway 3 to Manning Road, is underway and on track to finish in 2010.

Along with 13.2 km of highway widening, work includes: installation of median barrier; high mast lighting replacement; replacement and rehabilitation of overpasses.

Phase 5, Puce Road to Essex Road 27 - starting

The fifth and final phase of construction to widen Highway 401 between Windsor to Tilbury begins in 2008. Work includes: widening 7.2 km of highway from four to six lanes; rehabilitation of Maidstone Township Road 3 and Rochester Township Road 2 underpasses; widening of Belle River Bridge; widening and rehabilitation of Belle River overpass and Duck Creek Bridge; repairs to Big Creek Bridge; and construction of a commuter parking lot at Belle River Road interchange. Completion of Phase 5 is expected by fall 2009.

Borders and Gateways

Let's Get Windsor-Essex Moving strategy

Ontario is working with the federal government, local municipalities and other agencies to make investments that will address traffic flow, congestion and efficiency at the border crossing in Windsor, under the Let's Get Windsor-Essex Moving strategy.

Completed in 2007:

- Road improvements to Manning Road, from County Road 22 to VIA Rail Line
- Improved sign installation for Detroit-Windsor Truck Ferry
- Intelligent Transportation Systems projects including: Changeable Message Sign over Highway 401 east of the Highway 402 interchange in London; cameras, vehicle detection and portable changeable message signs on city streets and provincial highways in Windsor-Essex; and upgrades to London Traffic Operations Centre.

Continuing in 2008:

- Walker Road CPR Grade Separation project.

Detroit River International Crossing study

The Ontario Ministry of Transportation, in partnership with Transport Canada, the U.S. Federal Highway Administration and the Michigan Department of Transportation, is leading the Canadian portion of the Detroit River International Crossing study, to seek a long-term solution to border transportation issues in the Windsor area. The study is considering the entire border transportation system - river crossing, inspection plazas and access roads - to achieve an end-to-end solution that will best meet current and future mobility needs, while minimizing impacts on the surrounding communities and environment. The study team announced the technically and environmentally preferred alternatives for the access road, plaza and crossing in Spring 2008 and will submit environmental assessment documents for approval later this year. The recommended solution includes the Windsor-Essex Parkway, which follows the existing Highway 3 corridor and then is located adjacent to the E.C. Row Expressway, to a new plaza and crossing in the industrial area of west Windsor. Target for completion of the entire system is 2013.

WINDSOR / SARNIA GATEWAY:

Six-laning of Highway 401, from Highway 402 to Wellington Road, London

Construction is underway to widen this section of Highway 401 from four to six lanes and is expected to finish in 2008. Improvements include: reconstructing the Wellington Road interchange, replacing the Wellington Road structure, rehabilitation of the Dingman Creek structure and Dingman Drive Bridge, installing high mast lighting, upgrading signs and drainage and safety improvements.

As a result of this work, driving conditions and highway operations throughout this area will be improved.



Constructing the new Wellington Road Bridge

Borders and Gateways

NIAGARA GATEWAY:

Bridge Widening of QEW Henley Bridge, St. Catharines

Widening of the Henley Bridge was completed in late 2007, in advance of six-laning the QEW through St. Catharines. The bridge now provides three through lanes plus one auxiliary lane in each direction. Additional abutments and pier footings built during the project will allow the bridge to be widened to 10 lanes across in the future. As part of construction, the bridge's existing heritage arches and monuments were preserved and heritage lighting features were installed.



Completed Henley Bridge

Six-laning of QEW, St. Catharines

The QEW is a major economic trade route in Ontario. Six-laning and other improvements will address capacity, safety and operations for the high volumes of local, tourist and border traffic using the QEW through St. Catharines.

Construction has been in full swing since late 2007 and is expected to be completed in 2011. Along with widening the roadway from four to six lanes, work includes: reconstructing and reconfiguring interchanges; replacing Lake Street, Martindale, Geneva Street and Welland Avenue bridges; widening Third Street overpass; rehabilitation of Ontario Street and Niagara Street bridges; and installing tall wall median barrier, new storm drainage, and high mast lighting, and a landscaping and aesthetics plan.

Rehabilitation of Highway 405, QEW to Queenston Plaza

Rehabilitation of Highway 405 is underway and is expected to finish in 2008. Repair of the roadway and its structures will meet existing and future traffic demands for the Queenston-Lewiston border crossing. Work includes extending the Truck Queue Warning System, to provide warning to the entire corridor and enhance safety.

THOUSAND ISLANDS GATEWAY:

The Thousand Islands Parkway is a scenic border gateway in eastern Ontario and was repaved in 2007 using recycled pavement. Ontario uses a number of reclamation methods to recycle existing pavements, saving considerable energy and reducing gas emissions. In-Place Recycling, the method used for the Parkway, removes existing pavement, then blends and replaces it to improve surface smoothness and durability.



Recycled Pavement

For more information on Ontario border improvements, please visit:
www.ontario.ca/transportation

Partnerships

FLOW:

In March 2007, the federal government announced up to \$962 million in partnership with the province of Ontario and five municipalities to generate a combined investment of close to \$4.5 billion in public transit and highway infrastructure projects in the Greater Toronto Area (GTA).

The FLOW initiative is a long-term transportation action plan to reduce gridlock, improve the environment and increase economic growth in the GTA.

The FLOW initiative includes the following three key highway projects:

Extending Highway 404 northerly

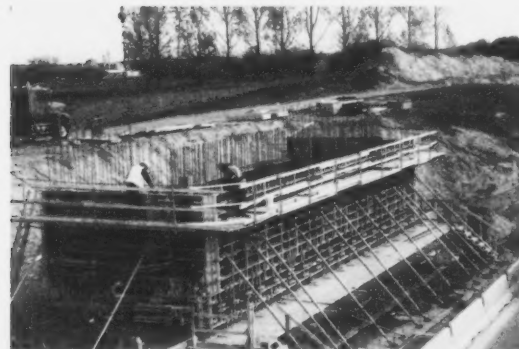
Extension of Highway 404 north from Green Lane to Ravenshoe Road will help take commuter and recreational traffic off local roads, reducing travel times, and support economic development. Phase 1 of construction to extend Highway 404 northerly, building a new bridge over Green Lane, was started in 2007 and will be completed this year. Another bridge over Mount Albert Road will be started in 2008 as Phase 2. Construction of the new highway in Phases 3 and 4 is scheduled to begin in 2010 with lanes open to traffic by 2012.

Widening Highway 7 in Durham Region

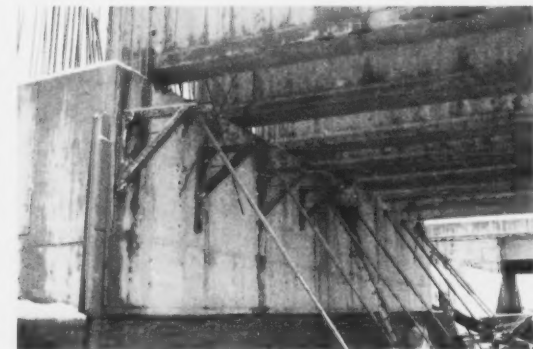
Four-laning of Highway 7 for 13 km, from Brock Road to Highway 12, is scheduled to begin in 2010 and be opened by 2012.

Extending Highway 407 easterly

Planning to extend Highway 407 easterly from Brock Road to Highway 35/115, including providing for a dedicated transit right-of-way, is currently going through the Environmental Assessment process.



Green Lane Bridge - forming an abutment

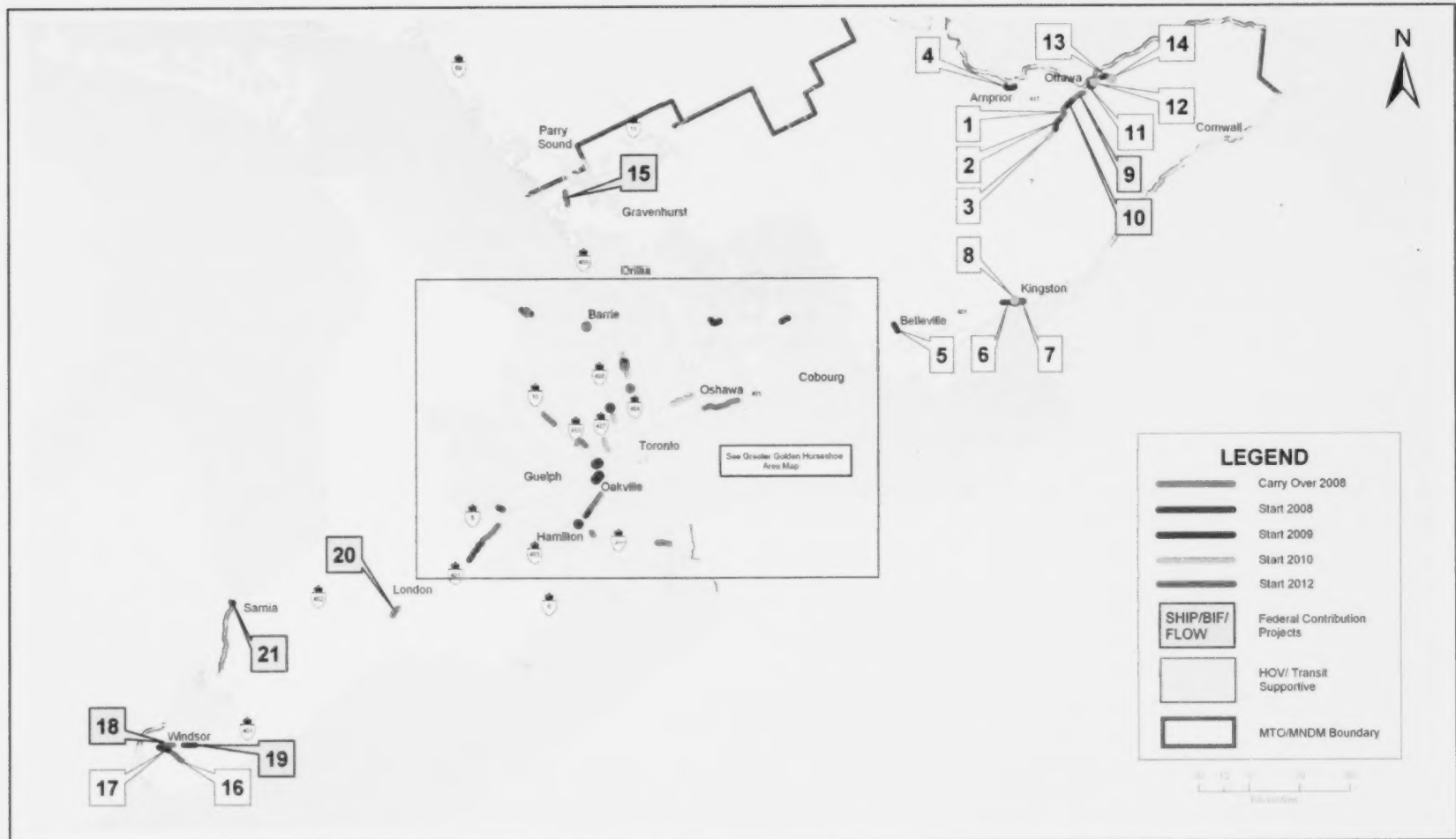


Green Lane Bridge - installing girders on the north abutment

This page appears blank intentionally.

Expansion Projects

Southern Ontario Expansion 2008 to 2012



Expansion Projects

Southern Ontario Expansion 2008 to 2012

Map #	Hwy	Region	Location	Type of Work	Planned/ Expected Start	Planned/ Expected Completion
1	7	Eastern Ontario	Hwy 417 to Carleton Place - Phase 1 of 3 - Hwy 417 to Jinkinson Rd	Two to four lane widening	underway	2008
2	7	Eastern Ontario	Hwy 417 to Carleton Place - Phase 2 of 3 - Jinkinson Rd. to Ashton Station Rd.	Two to four lane widening	2008	2010
3	7	Eastern Ontario	Hwy 417 to Carleton Place - Phase 3 of 3 - Ashton Station Rd. to Carleton Place	Two to four lane widening	2010	2011
4	17	Eastern Ontario	Arnprior Bypass - Phase 1 - Regional Road 29 to Division Street	Two to four lane widening	2009	2011
5	62	Eastern Ontario	Hwy 401 to Foxboro	Two to four and two to five lane widening	2009	2010
6	401	Eastern Ontario	Hwy 15 to Frontenac Cty. Rd. 38 - Phase 2 - west of Sydenham Rd. to west of Montreal St., Kingston	Four to six lane widening	2008	2011
7	401	Eastern Ontario	Hwy 15 to Frontenac Cty. Rd. 38 - Phase 3 - Montreal Street and CNR overheads, Kingston	Bridge replacement/widening	2012	2013
8	401	Eastern Ontario	Hwy 15 to Frontenac Cty. Rd. 38 - Division Street, Kingston	Interchange improvements	2010	2011
9	417	Eastern Ontario	Hwy 416 to Eagleson Rd., Ottawa (High Occupancy Vehicle lanes)	Four to eight lane widening	underway	2009
10	417	Eastern Ontario	Eagleson Rd. to Hwy 7, Ottawa (High Occupancy Vehicle lanes)	Four to eight and four to six lane widening	2009	2011
11	417 - OQW	Eastern Ontario	Hwy 416 to Anderson Rd. - Clyde Ave., Ottawa	Bridge deck replacement and widening	2008	2008
12	417 - OQW	Eastern Ontario	Hwy 416 to Anderson Rd. - Merivale Rd., Carling Ave., Kirkwood Rd. bridges, Ottawa	Bridge rehabilitation/deck replacements/widening/noise barrier	2010	2012
13	417 - OQW	Eastern Ontario	Hwy 416 to Anderson Rd. - Vanier Parkway to Regional Rd. 174, Ottawa	Six to eight lane widening	2010	2012
14	417 - OQW	Eastern Ontario	Hwy 416 to Anderson Rd. - Cyrville Rd. Bridge, Ottawa	Bridge replacement	2010	2011
15	69/400	Northeastern Region	Musquash River to MacTier - (Wahta First Nation) (Strategic Highway Infrastructure Program)	Two to four lane widening	underway	2008
16	3	Southwestern Ontario	Leamington to Windsor - Phase 1 - west Jct. of Essex County Rd. 34 to Essex Cty. Rd. 8	Two to four lane widening	underway	2008

continued...

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Expansion Projects

Southern Ontario Expansion 2008 to 2012

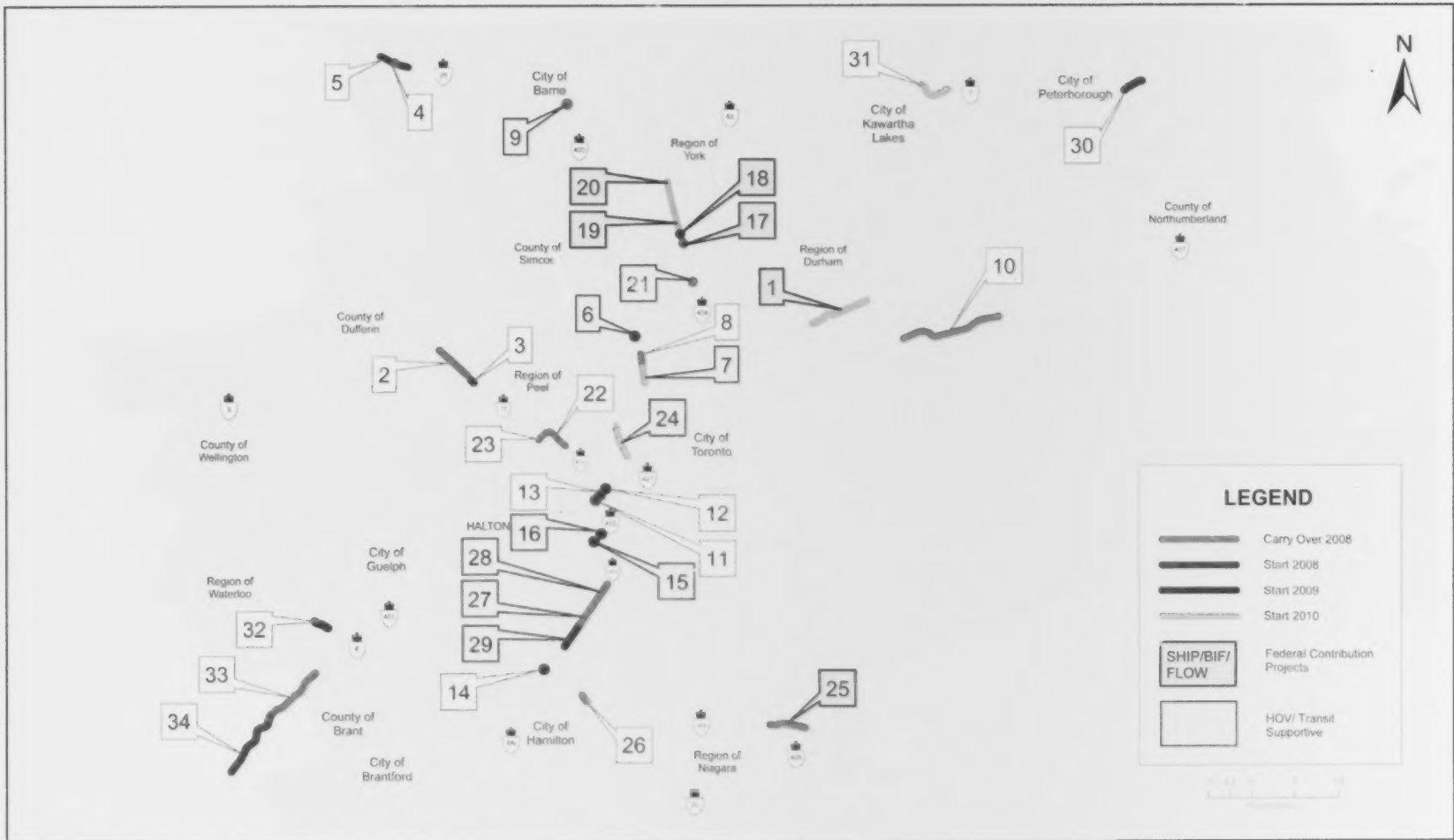
Map #	Hwy	Region	Location	Type of Work	Planned/ Expected Start	Planned/ Expected Completion
17	3	Southwestern Ontario	Leamington to Windsor - Phase 2 - Essex Cty. Rd. 11 to West Jct. Essex Cty. Rd. 34	Two to five lane widening	2009	2010
18	401	Southwestern Ontario	Windsor to Tilbury - Phase 4 of 5 - Hwy 3 to Manning Rd. (Border Infrastructure Fund)	Four to six lane widening	underway	2010
19	401	Southwestern Ontario	Windsor to Tilbury - Phase 5 of 5 - Puce Rd. to Essex Rd. 27 (Border Infrastructure Fund)	Four to six lane widening	2008	2009
20	401	Southwestern Ontario	Hwy 402 to Wellington Rd. - London (Border Infrastructure Fund)	Four to six lane widening	underway	2008
21	402	Southwestern Ontario	Bluewater Bridge easterly, Sarnia (Border Infrastructure Fund)	Two to four westbound lane widening	2009	2010

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

This page appears blank intentionally.

Expansion Projects

Greater Golden Horseshoe Expansion 2008 to 2012



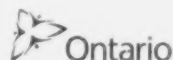
Expansion Projects

Greater Golden Horseshoe Expansion 2008 to 2012

Map #	Hwy	Region	Location	Type of Work	Planned/ Expected Start	Planned/ Expected Completion
1	7	Central Ontario	Brock Rd., Pickering to Hwy 12, Brooklin (FLOW)	Two to four lane widening	2010	2012
2	10	Central Ontario	Caledon to Highway 9 - Phase 1 of 2 - 1 km north of Regional Rd. 24 to Hwy 9	Two to four lane widening	underway	2009
3	10	Central Ontario	Caledon to Highway 9 - Phase 2 of 2 - 1 km south of Regional Rd. 24 to 1 km north of Regional Rd. 24	Two to four lane widening	2008	2009
4	26N	Central Ontario	Wasaga to Collingwood - Phase 2 of 3 - Fairgrounds Rd. and Batteaux River Bridges	New bridges	underway	2008
5	26N	Central Ontario	Wasaga to Collingwood - Phase 3 of 3 - Sixth line to existing Hwy 26	New four-lane highway	2009	2010
6	400	Central Ontario	King Rd. interchange, York Region (High Occupancy Vehicle lanes)	Interchange improvement	2008	2010
7	400	Central Ontario	Major MacKenzie Dr. to King Rd., Vaughan (High Occupancy Vehicle lanes)	Six to eight lane widening	2010	2012
8	400	Central Ontario	Teston Rd, Vaughan (partnership with York Region)	New interchange	underway	2008
9	400	Central Ontario	Essa Rd. interchange, Barrie (High Occupancy Vehicle lanes)	New commuter parking lot	underway	2008
10	401	Central Ontario	Stevenson Rd. to Hwy. 35/115 split & Stevenson Rd. interchange, Oshawa	Resurfacing/new interchange	underway	2010
11	401	Central Ontario	McLaughlin Rd. bridge, Mississauga (partnership with City of Mississauga)	Bridge replacement	2008	2008
12	401	Central Ontario	Hwy 410 to Hurontario St., Mississauga	New interchange/widening	2009	2012
13	401	Central Ontario	Hwy 410 to Hurontario St., Mississauga	New patrol yard	2008	2010
14	403	Central Ontario	Waterdown Rd. interchange (partnership with the City of Burlington)	Upgrade to full interchange	2008	2009
15	403	Central Ontario	Winston Churchill Blvd., Mississauga (High Occupancy Vehicle lanes)	New commuter parking lot	2009	2009
16	403	Central Ontario	Erin Mills Parkway, Mississauga (High Occupancy Vehicle lanes)	New commuter parking lot	2009	2009
17	404	Central Ontario	Hwy 404 Extension - Phase 1 of 4 - Green Lane overpass, York Region (FLOW)	New bridge	underway	2008

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

continued...



Expansion Projects

Greater Golden Horseshoe Expansion 2008 to 2012

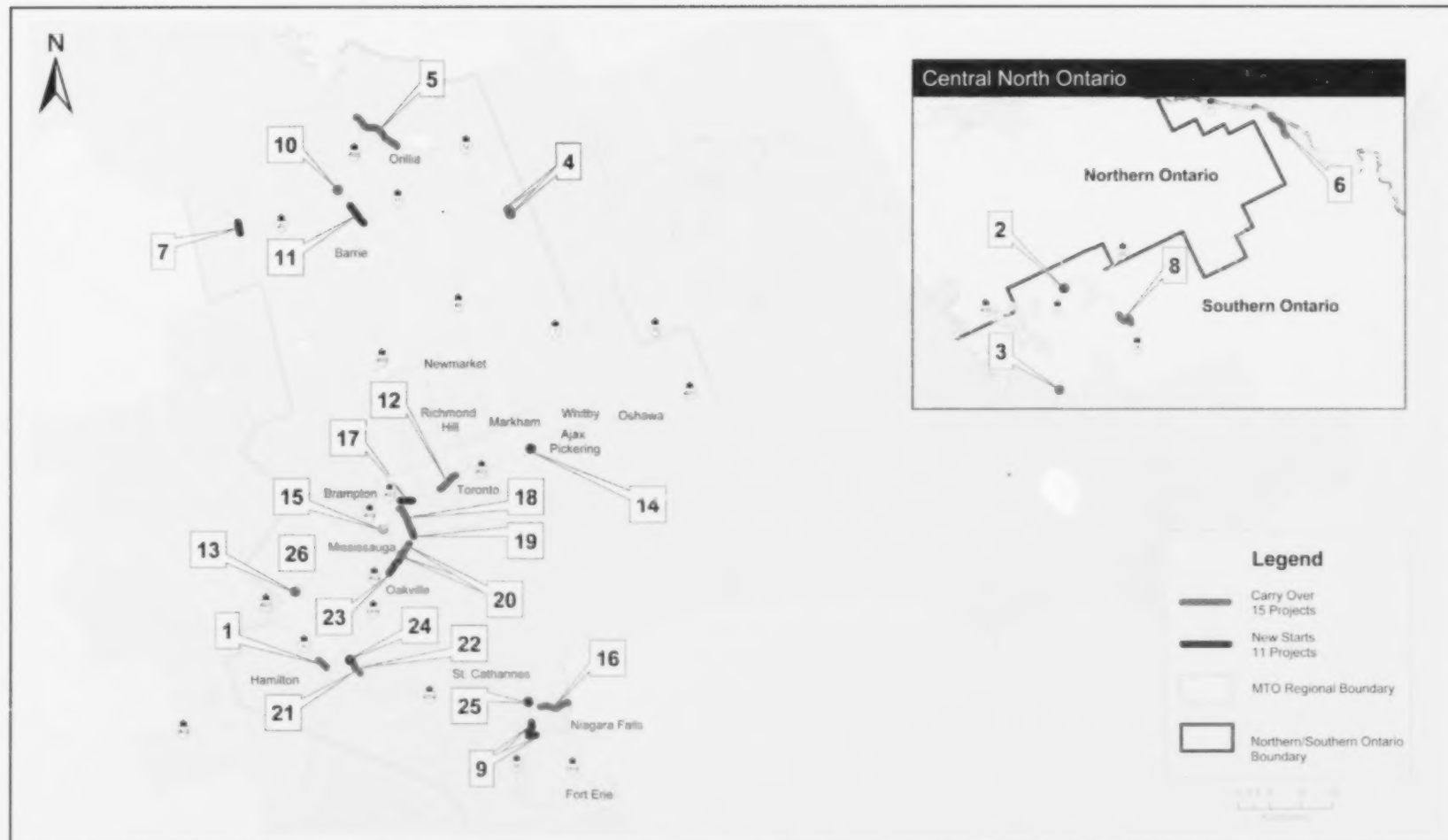
Map #	Hwy	Region	Location	Type of Work	Planned/ Expected Start	Planned/ Expected Completion
18	404	Central Ontario	Hwy 404 Extension - Phase 2 of 4 - Mount Albert Rd., overpass, York Region (FLOW)	New bridge	2008	2009
19	404	Central Ontario	Hwy 404 Extension - Phase 3 of 4 - Green Lane to Queensville Side Rd., York Region (FLOW)	New four-lane highway	2010	2012
20	404	Central Ontario	Hwy 404 Extension - Phase 4 of 4 - Queensville Side Rd. to Ravenshoe Rd., York Region (FLOW)	New four-lane highway	2010	Beyond 2012
21	404	Central Ontario	Aurora Rd. interchange, Aurora (High Occupancy Vehicle lanes)	New commuter parking lot	underway	2008
22	410	Central Ontario	Bovaird Dr. to Mayfield Rd., Brampton	New four-lane highway	underway	2008
23	410	Central Ontario	Mayfield Rd. to Hwy 10, Brampton	New four-lane highway	underway	2009
24	427	Central Ontario	Hwy 409 to Hwy 407, Toronto (High Occupancy Vehicle lanes)	Widening	2010	2012
25	QEW	Central Ontario	Seventh St. to Garden City Skyway, St. Catharines (Border Infrastructure Fund)	Four to six lane widening	underway	2011
26	QEW	Central Ontario	Red Hill Valley Parkway interchange - Phase 3 of 3 - connection to QEW, Hamilton	New interchange & widening	underway	2009
27	QEW	Central Ontario	Burloak Dr. to Third Line, Oakville (High Occupancy Vehicle lanes)	Six to eight lane widening	underway	2011
28	QEW	Central Ontario	Third Line to Trafalgar Rd., Oakville (High Occupancy Vehicle lanes)	Six to eight lane widening	underway	2011
29	QEW	Central Ontario	Guelph Line to Burloak Dr., Burlington/Oakville (High Occupancy Vehicle lanes)	Six to eight lane widening	2009	2011
30	7	Eastern Region	Hwy 28 to Drummond Line, Peterborough	Two to five lane widening	2008	2010
31	7	Eastern Region	Lindsay Bypass - Victoria Cty. Rd. 36 to Angeline St. and Hwy 35 from Hwy 7 southerly 2.2 km	Two to four and four to five lane widening	2010	2012
32	8	Southwestern Ontario	Kitchener - Waterloo Expressway - Grand River to Sportsworld Dr.	Four to six & six to eight lane widening	2009	2011
33	401	Southwestern Ontario	Woodstock to Cambridge - Phase 1 of 3 - Drumbo Rd. to Waterloo Rd. 97 (Cedar Creek Rd.)	Four to six lane widening	underway	2008
34	401	Southwestern Ontario	Woodstock to Cambridge - Phase 3 of 3 - Oxford Rd. 2 to Drumbo Rd.	Four to six lane widening	2008	2011

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

This page appears blank intentionally.

Rehabilitation Projects

Central Ontario Rehabilitation 2008



Rehabilitation Projects

Central Ontario Rehabilitation 2008

Map #	Hwy	Status	Location	Type of Work	Planned/ Expected Completion	Project Length (kms)
1	6	underway	Hwy 403 to Hwy 5, Hamilton	Reconstruction/new interchange/truck climbing lane/ noise barrier/median barrier	2008	3
2	11	new	Vernon Lake, southbound lane, Huntsville	Bridge replacement	2010	n/a
3	11	underway	Severn River Bridge, south of Gravenhurst	Bridge rehabilitation	2009	n/a
4	12	underway	White's Creek & Beaverton River Bridges, Durham Region	Bridge replacements	2008	n/a
5	12	underway	Prices Corners to Coldwater	Reconstruction/bridge rehabilitation/ intersection improvements/truck climbing lane	2009	15
6	17	underway	Point Alexander easterly to Chalk River	Resurfacing	2008	16
7	26	new	Stayner northerly to Hwy 26N, Simcoe County	Resurfacing	2008	3
8	35	underway	Hwy 118 northerly, Carnarvon	Resurfacing/bridge rehabilitations	2010	14
9	58 & 20	new	Hwy 20 to Thorold Stone Rd. & Hwy 58 to Niagara Rd. 70, Thorold	Reconstruction/resurfacing	2008	4
10	400	underway	CPR bridge, northbound lanes, north of Barrie	Bridge widening	2008	n/a
11	400	new	Forbes Rd. to Hwy 11, southbound lanes, Simcoe County	Resurfacing	2009	7
12	401	underway	Leslie St. to Avenue Rd., eastbound collector lanes, Toronto	Bridge rehabilitations/reconstruction/ noise barrier/traffic signals	2008	6
13	401	underway	Guelph Line interchange, Milton	Interchange improvements/traffic signals/ commuter parking lot	2008	n/a
14	401	new	Rouge River Bridge, Toronto	Bridge rehabilitation	2008	n/a
15	403	underway	Hwy 401/Hwy 410 interchange, Mississauga	COMPASS expansion	2008	n/a
16	405	underway	Queenston Lewiston Bridge Toll Plaza to QEW, Niagara Falls	Reconstruction/bridge rehabilitations/message signs	2008	9
17	409	new	Hwy 401 to Hwy 427, Toronto	Resurfacing/bridge rehabilitations/ median barrier replacement/highway lighting	2011	5
18	427	underway	QEW to Hwy 401, southbound express lanes, Toronto	Reconstruction/bridge rehabilitations	2008	7
19	427	new	QEW to Hwy 401, northbound express lanes, Toronto	Reconstruction/bridge rehabilitations	2010	8

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

continued...

Rehabilitation Projects

Central Ontario Rehabilitation 2008

Map #	Hwy	Status	Location	Type of Work	Planned/ Expected Completion	Project Length (kms)
20	QEW	underway	Hurontario St. interchange & Mississauga Rd. to Dixie Rd., Mississauga	Interchange reconstruction/resurfacing	2009	6
21	QEW	underway	Burlington Bay Skyway, Niagara bound, Burlington	Bridge rehabilitation/resurfacing	2008	3
22	QEW	underway	Burlington Bay Skyway, Toronto bound, Burlington	Resurfacing/overhead signs/COMPASS improvements	2008	3
23	QEW	new	Mississauga Rd. to west of Erin Mills Parkway, Mississauga	Resurfacing	2008	5
24	QEW	new	Fairview St. overpass, Burlington	Bridge rehabilitation	2008	n/a
25	QEW	new	Garden City Skyway Bridge, St. Catharines	Pier repairs	2008	n/a
26	various	new	Various highways within central Ontario	Selective resurfacing	2008	n/a

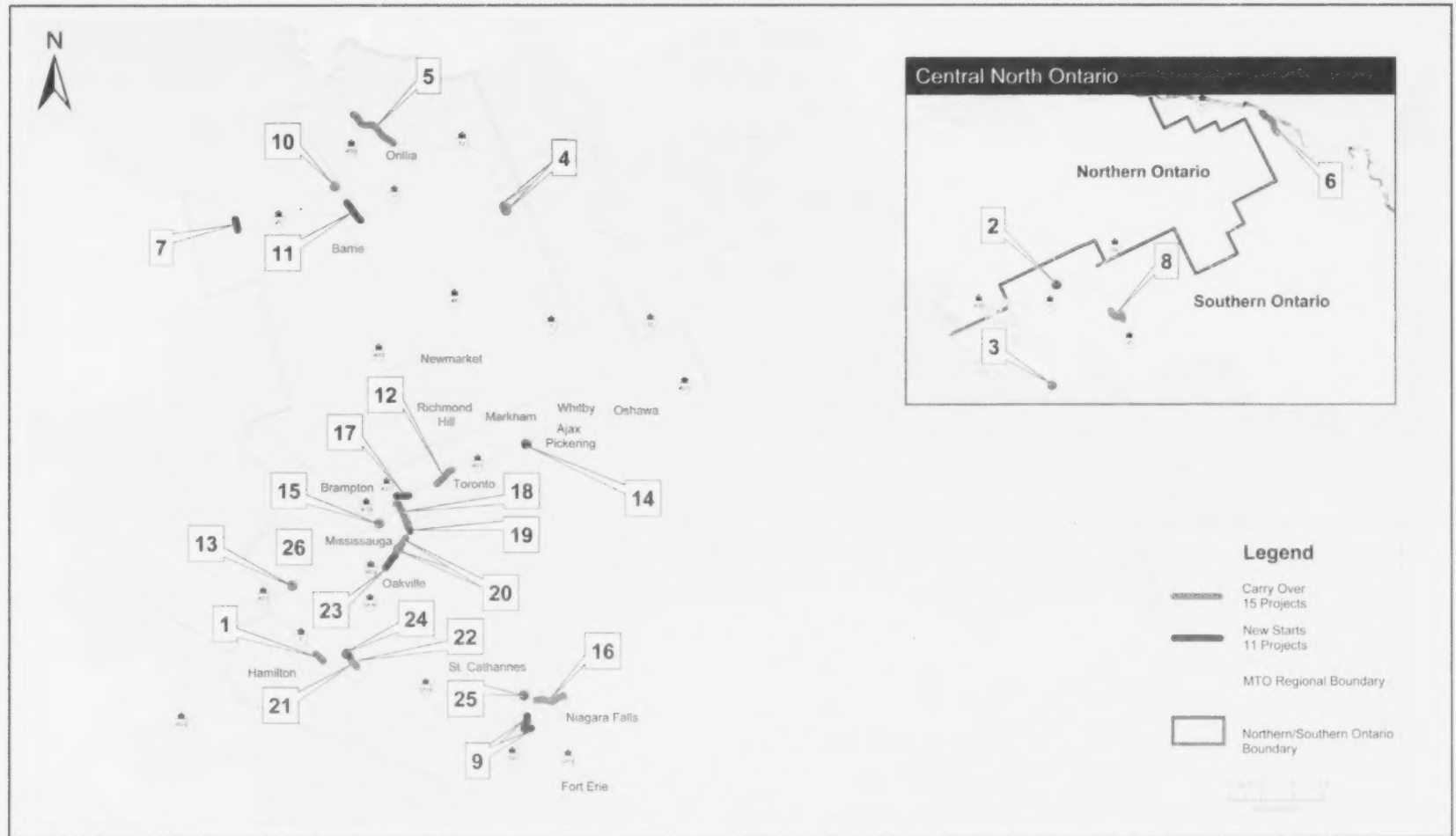
NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

This page appears blank intentionally.



Rehabilitation Projects

Central Ontario Rehabilitation 2009



Rehabilitation Projects

Central Ontario Rehabilitation 2009

Map #	Hwy	Status	Location	Type of Work	Planned/ Expected Completion	Project Length (kms)
1	7	new	West Duffins Creek, Markham	Bridge replacement	2009	n/a
2	7	new	Columbus Rd., Brooklin	Intersection improvements/traffic signals	2009	n/a
3	10	new	Caledon Rd. 22 (Old School Rd.), north of Brampton	Traffic signals	2009	n/a
4	11	new	Sharpe's Creek, north of Hwy 118, Gravenhurst	Culvert rehabilitation	2009	n/a
5	11	new	Hwy 169 northerly, Gravenhurst	Resurfacing	2010	6
6	48	new	Elgin Mills Rd., Markham	Traffic signals	2009	n/a
7	400	new	Hwy 93 to Forbes Rd, southbound lanes; CPR bridge, northbound lanes, north of Barrie	Resurfacing/bridge rehabilitation	2010	10
8	401	new	Hogg's Hollow Bridge, express lanes, Toronto	Bridge rehabilitation	Beyond 2012	n/a
9	401	new	Jane St. to Kipling Ave., westbound collector lanes, Toronto	Reconstruction/bridge rehabilitation	2012	6
10	401	new	McLaughlin Rd. to Winston Churchill Blvd., Mississauga	Resurfacing	2010	9
11	401	new	Winston Churchill Blvd. to Trafalgar Rd., Milton	Resurfacing	2009	2
12	401	new	Kennedy Rd. to Pickering, Toronto/Pickering	Overhead signs	2009	n/a
13	403	new	King St./Main St./York Ave./Aberdeen Ave., Hamilton	Bridge rehabilitations	2009	n/a
14	QEW	new	McLeod Rd., Niagara Falls	Traffic signals	2009	n/a
15	various	new	Various highways within central Ontario	Selective resurfacing	2009	n/a

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Rehabilitation Projects

Central Ontario Rehabilitation 2010 to 2012

Hwy	Status	Location	Type of Work	Project Length (kms)
7	new	Thickson Rd./Durham Rd. 26, Brooklin	Traffic signals	n/a
7A	new	Carnegie St., Manchester	Traffic signals	n/a
8	new	Hwy 5/8, Peter's Corners, west of Hamilton	Intersection improvements	n/a
11	new	South Jct. of Hwy 12, Simcoe	Traffic signals	n/a
11	new	Vernon Lake, northbound lane, Huntsville	Bridge rehabilitation/replacement	n/a
11	new	Muskoka Rd. 13 interchange, Severn River	Bridge rehabilitation	n/a
12	new	Simcoe Rd. 44, Atherly to Simcoe Rd. 50, Gamebridge	Resurfacing	25
12	new	Simcoe Rd. 37 to King St., Midland	Resurfacing	4
17	new	West of Renfrew County Rd. 635 easterly, Rolphton	Resurfacing	19
17	new	East of Hwy 533 easterly, Deux Rivieres	Resurfacing	10
17	new	East of Hwy 533 easterly, Bisset Creek	Resurfacing	13
35	new	Hwy 60 to Hwy 117, Dorset	Resurfacing	18
60	new	Oxtongue River, east of Dwight	Bridge replacement	n/a
60	new	Oxtongue Lake Narrows Bridge, East of Hwy 35	Bridge replacement	n/a
89	new	Nottawasaga River Bridge, Alliston	Bridge rehabilitation	n/a
89	new	West of Simcoe Rd. 13 to Simcoe/Dufferin Boundary	Resurfacing	6
93	new	Waverley to north of Hillsdale, Simcoe	Truck climbing lane/traffic signals	2
400	new	Hwy 11 to Hwy 93, northbound lanes, Simcoe	Resurfacing/bridge rehabilitation	16
400	new	Hwy 7 to Langstaff Rd., York	Resurfacing	2
400	new	York/Simcoe boundary to Essa Rd., Barrie	Resurfacing/bridge rehabilitation	36
400	new	Hwy 93 to Simcoe Rd. 19, northbound lanes, Simcoe	Resurfacing	15
401	new	Halton Rd. 25 to Halton/Wellington Boundary, Milton	Resurfacing	13

continued...

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Rehabilitation Projects

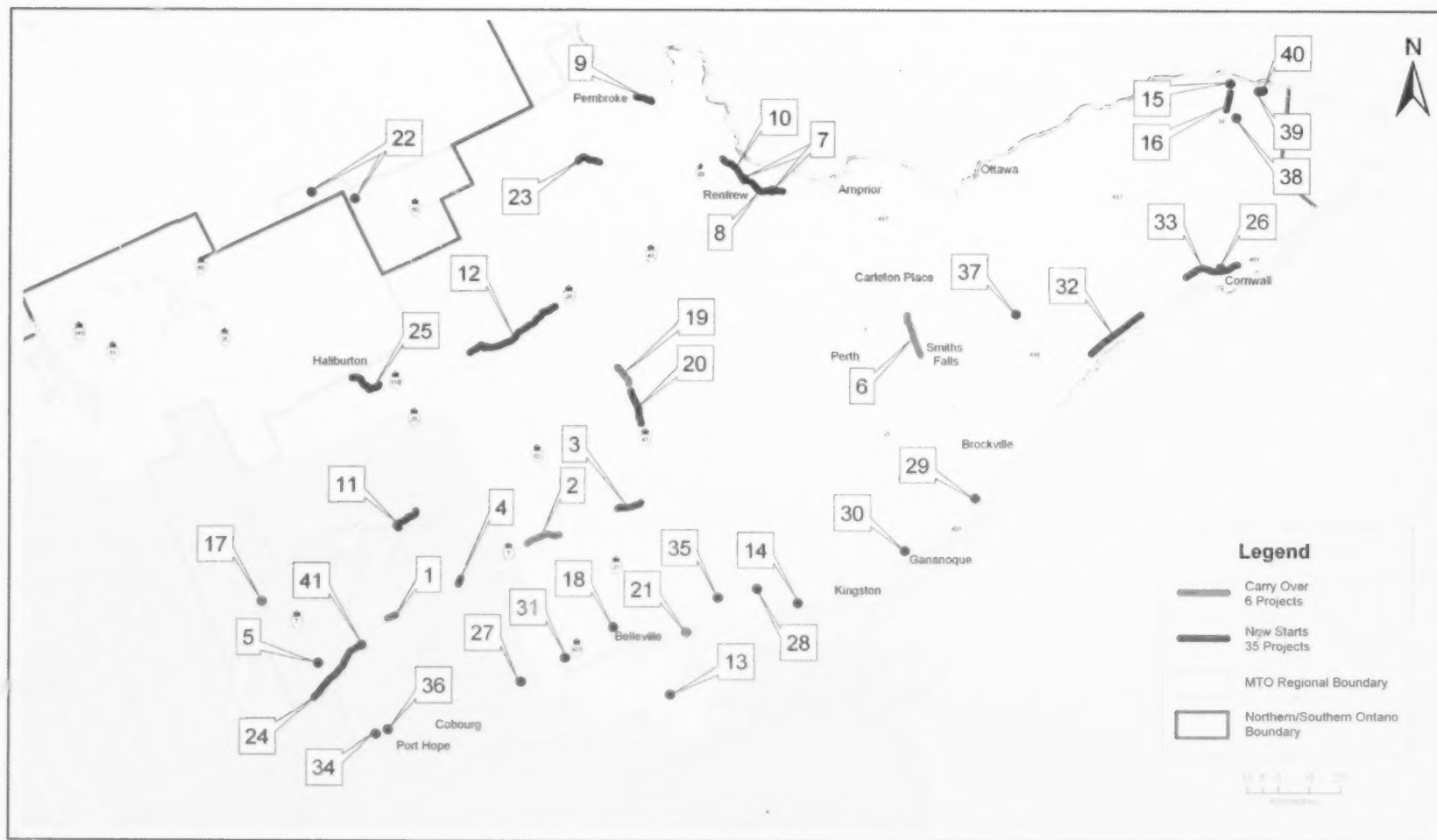
Central Ontario Rehabilitation 2010 to 2012

Hwy	Status	Location	Type of Work	Project Length (kms)
401	new	Markham Rd. to Warden Ave. eastbound express lanes, Toronto	Resurfacing	6
401	new	Jane St. to Avenue Rd., eastbound collector lanes, Toronto	Reconstruction/bridge rehabilitation	7
401	new	Warden Ave. to Leslie St., eastbound collector lanes, Toronto	Reconstruction/bridge rehabilitation	5
427	new	QEW to Hwy 401, southbound collector lanes, Toronto	Reconstruction/bridge rehabilitation	7
427	new	QEW to 401, northbound collector lanes, Toronto	Resurfacing/bridge rehabilitations	7
QEW	new	Bowen Rd., Fort Erie	Bridge replacement	n/a
various	new	Various highways within central Ontario	Selective resurfacing	n/a

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Rehabilitation Projects

Eastern Ontario Rehabilitation 2008



Rehabilitation Projects

Eastern Ontario Rehabilitation 2008

Map #	Hwy	Status	Location	Type of Work	Planned/ Expected Completion	Project Length (kms)
1	7	underway	Drummond Line to Peterborough	Resurfacing/left turn lane	2009	3
2	7	underway	West of Hwy 62 to Marmora	Resurfacing/passing lanes	2008	12
3	7	new	Lennox and Addington/ Hastings Cty. Line to Hwy 37	Resurfacing/passing lane	2009	8
4	7	new	Norwood, east to west limits	Resurfacing	2009	2
5	7A	new	Bethany Creek Bridge, Bethany	Bridge rehabilitation	2008	n/a
6	15	underway	Smiths Falls to Lanark Rd. 10	Reconstruction/passing lanes	2008	14
7	17	new	Constable Philip Shrive and CPR overhead, Renfrew	Bridge rehabilitation	2010	n/a
8	17	new	Renfrew Rd. 508 to Renfrew	Resurfacing	2008	12
9	17	new	Renfrew Rd. 40 to Renfrew Rd. 24, Pembroke	Resurfacing/intersection improvements	2008	6
10	17	new	Renfrew Rd. 20 to Storyland, Renfrew	Resurfacing	2008	5
11	28	new	Young's Point Rd. to Burleigh Falls	Resurfacing	2009	9
12	28	new	Bancroft to Hardwood Lake	Resurfacing	2008	35
13	33	new	Prince Edward Rd. 1, west of Picton	Intersection improvements	2009	n/a
14	33	new	Speers Blvd., Amherstview	Intersection improvements	2009	n/a
15	34	new	Hawkesbury Creek / OCR Bridge, Hawkesbury	Bridge rehabilitation	2009	n/a
16	34	new	Vankleek Hill to Green Lane Rd.	Resurfacing	2009	6
17	35	underway	Victoria Rd. 4, Lindsay	Intersection improvements	2008	n/a
18	37	new	CNR overhead, north of Belleville	Bridge rehabilitation	2008	n/a
19	41	underway	Bon Echo Park to Machesney Lake Rd., Bon Echo	Resurfacing	2008	7
20	41	new	Cloyne to Bon Echo Park	Resurfacing	2009	14
21	49	underway	Hastings Rd. 2, Deseronto	Traffic signals	2008	n/a
22	60	new	Kearney and Headstone Bridges, Whitney	Bridge replacements	2008	n/a

continued...

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Rehabilitation Projects

Eastern Ontario Rehabilitation 2008

Map #	Hwy	Status	Location	Type of Work	Planned/ Expected Completion	Project Length (kms)
23	60	new	Deacon to Golden Lake	Resurfacing	2008	8
24	115	new	Hwy 35 to Peterborough Rd. 10	Reconstruction/paved shoulders	2008	23
25	118	new	West Jct. of Haliburton Rd. 648 to east Jct. 648, west of Bancroft	Resurfacing	2008	12
26	401	new	Pitt St. to Brookdale Ave., Cornwall	Noise barriers	2008	1
27	401	new	Northumberland Rd. 30, Brighton	Interchange improvement	2008	n/a
28	401	new	Lennox and Addington Rd. 4 underpass (interchange 593), Kingston	Bridge rehabilitation	2009	n/a
29	401	new	Ivy Lea border crossing	Queue end warning system	2008	n/a
30	401	new	Gananoque River Bridge, Gananoque	Bridge painting	2009	n/a
31	401	new	Trent River Bridge overpass, Trenton	Bridge rehabilitation/widening	2012	n/a
32	401	new	Upper Canada Rd. to Carman Rd., Morrisburg	Resurfacing	2009	21
33	401	new	Boundary Rd. to Moulinette Rd., westbound lane, Cornwall	Resurfacing	2008	18
34	401	new	Deer Park Rd. underpass, Port Hope	Bridge rehabilitation	2009	n/a
35	401	new	Newburgh Rd. underpass, Napanee	Bridge rehabilitation	2009	n/a
36	401	new	Cranberry Rd. underpass, Port Hope	Bridge rehabilitation	2009	n/a
37	416	new	Barnes Creek, south Kemptville	Culvert replacement	2009	n/a
38	417	new	County Rd. 23 underpass near Dalkeith	Bridge rehabilitation	2009	n/a
39	417	new	East Hawkesbury Twp. Rd. underpass	Bridge rehabilitation	2009	n/a
40	417	new	Hwy 17 underpass (interchange 9)	Bridge rehabilitation	2009	n/a
41	115	new	Peterborough Rd. 28 overpass - northbound, and Hwy 115 southbound exit ramp at Hwy 7, Springville	Bridge rehabilitation/ramp improvements	2009	n/a

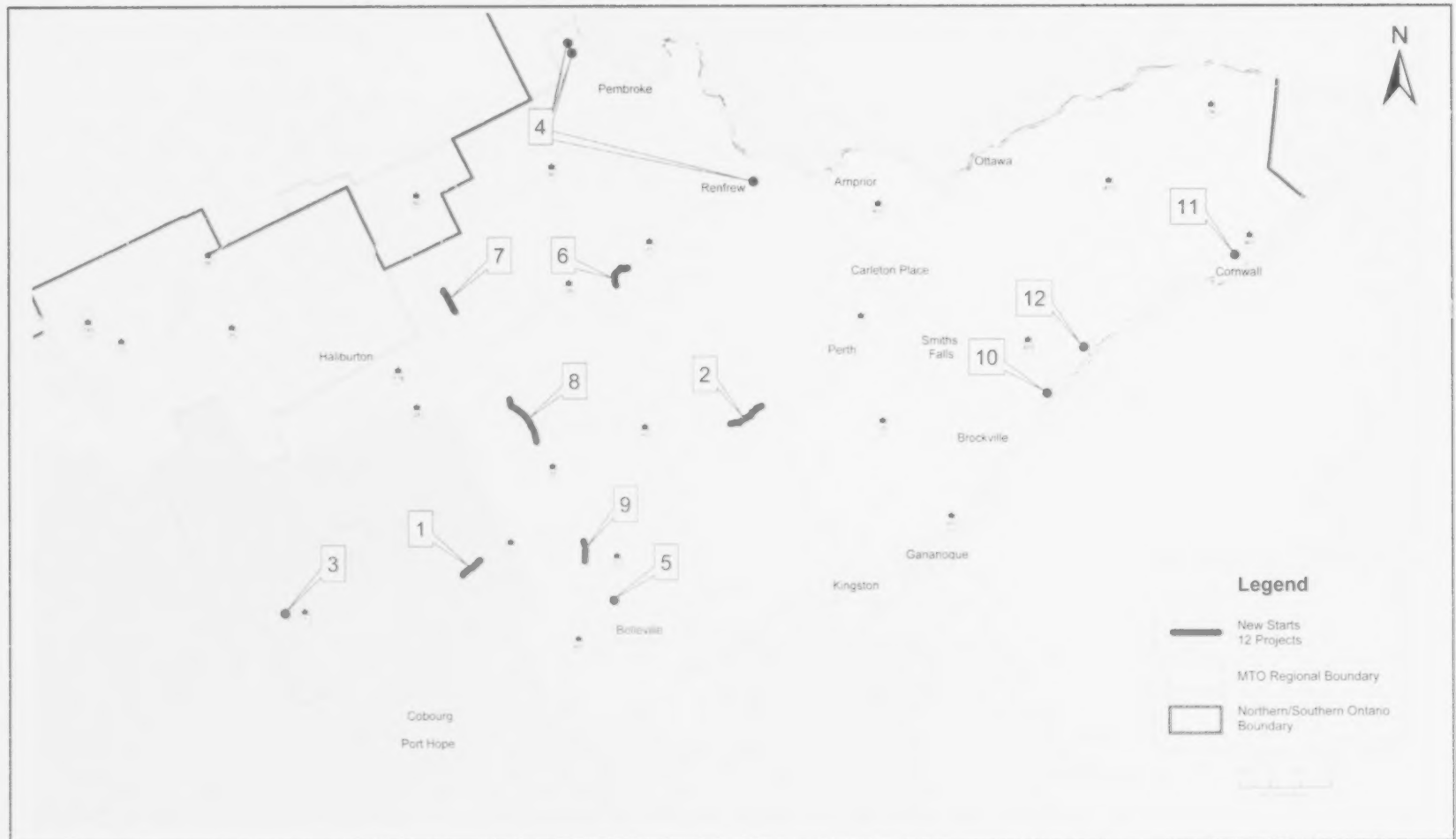
NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

This page appears blank intentionally.



Rehabilitation Projects

Eastern Ontario Rehabilitation 2009



Rehabilitation Projects

Eastern Ontario Rehabilitation 2009

Map #	Hwy	Status	Location	Type of Work	Planned/ Expected Completion	Project Length (kms)
1	7	new	Havelock to Norwood	Resurfacing/passing lanes	2010	8
2	7	new	Wemyss to Sharbot Lake	Resurfacing/passing lanes	2010	13
3	7	new	Scugog River Bridge, Lindsay	Bridge rehabilitation and widening	2010	n/a
4	17	new	Petawawa River Bridge, CPR overhead, Petawawa and CNR overhead, Renfrew	Bridge rehabilitations	2012	n/a
5	37	new	Moira River Bridge, Belleville	Bridge rehabilitation	2010	n/a
6	41	new	North of Denbigh to Griffith	Resurfacing	2010	9
7	62	new	Hickey Settlement Rd. to Maynooth	Resurfacing	2010	8
8	62	new	Cleveland Rd. to Hastings Rd. 620, Ormsby	Resurfacing/bridge replacement/ intersection improvements	2010	17
9	62	new	Ivanhoe to Quin-Mo-Lac Rd.	Resurfacing	2009	7
10	401	new	CPR overhead at Prescott	Bridge removal	2009	n/a
11	401	new	CNR overhead, Cornwall	Bridge replacement	2011	n/a
12	401	new	Moulinette Rd. and Carman Rd. underpasses, west of Cornwall	Bridge rehabilitation/replacement	2010	n/a

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Rehabilitation Projects

Eastern Ontario Rehabilitation 2010 to 2012

Hwy	Status	Location	Type of Work	Project Length (kms)
7	new	Highway 41 intersection, Kaladar	Intersection improvements	n/a
7	new	Scott Rd. to Hwy 41, Kaladar	Resurfacing/passing lane	15
7	new	Marmora to Havelock	Resurfacing	14
7	new	Perth, east to west limits	Reconstruction	1
7	new	Hwy 115 to Peterborough Rd.15, Peterborough	Resurfacing	4
7	new	Frontenac Rd. 38 to Scott Rd., east of Hwy. 41	Resurfacing	27
15	new	Seeley's Bay to Crosby	Resurfacing/passing lanes	26
15	new	Hamlet of Portland	Resurfacing	3
15	new	Leeds & Grenville Rd. 42 to Young's Hill Rd., Crosby	Resurfacing/intersection improvement/ passing lane/bridge replacement	3
17	new	Renfrew Rd. 42 to Renfrew Rd. 26, Pembroke	Resurfacing	5
17	new	Cobden to Renfrew Rd. 40	Resurfacing/bridge rehabilitation	16
28	new	Stoney Lake Rd. to Young's Point	Resurfacing	3
28	new	Former Hwy. 134 to Stoney Lake Rd., Lakefield	Realignment/traffic signals	3
35	new	Victoria Rd. 121, Long Beach	Intersection improvements	n/a
37	new	Tweed to Hwy 7	Resurfacing	8
60	new	Bonnechere River Bridge, Deacon	Bridge rehabilitation	n/a
62	new	Quin-Mo-Lac Rd. to Madoc	Realignment/bridge rehabilitation /truck climbing lane	7
62	new	Ashley St. to Hasting Rd. 14, Foxboro	Resurfacing/bridge rehabilitation/intersection improvements	3
148	new	CPR overhead and Hazley Bay Bridges, Pembroke	Bridge rehabilitations	n/a

continued...

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Rehabilitation Projects

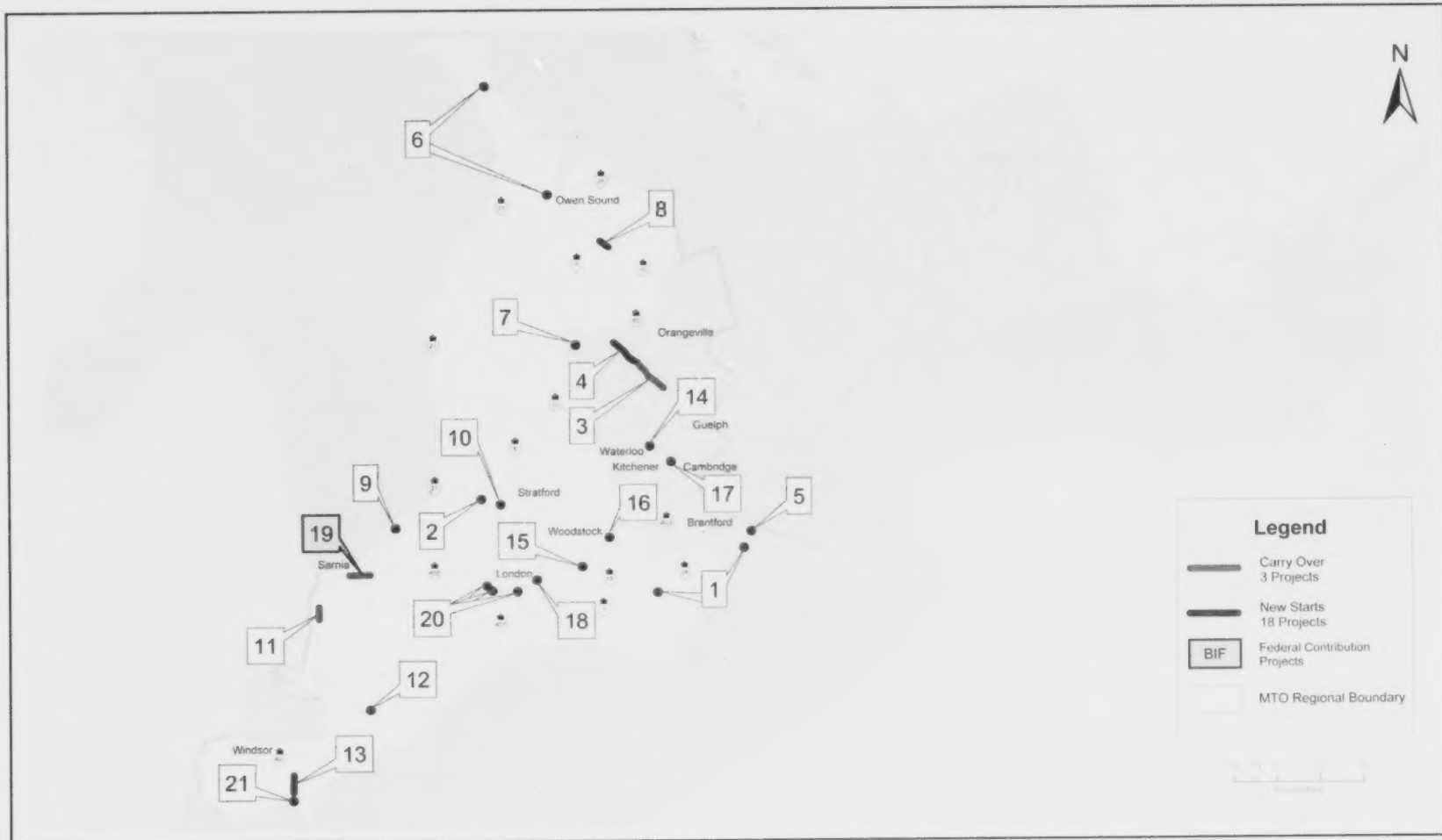
Eastern Ontario Rehabilitation 2010 to 2012

Hwy	Status	Location	Type of Work	Project Length (kms)
401	new	Boundary Rd. underpass, Cornwall	Bridge rehabilitation	n/a
401	new	East of Augusta, Brockville	Noise barriers	1
401	new	Palace Rd. overpass, Napanee	Bridge rehabilitation	n/a
401	new	Frontenac Rd. 38 to Lennox and Addington Rd. 4, west of Kingston	Resurfacing/bridge rehabilitations	18
401	new	Hwy. 138, Dickinson Drive and McConnell Ave. underpasses, Cornwall	Bridge rehabilitations	n/a
417	new	8th Line Rd. to Russell Rd., Ottawa	Resurfacing/bridge rehabilitations	7
417	new	Hwy 7 to Ottawa Carleton Rd. 49, Ottawa	Resurfacing	10
417	new	Stormont Dundas & Glengarry Rd. 30 to Casselman	Bridge rehabilitations	7

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Rehabilitation Projects

Southwestern Ontario Rehabilitation 2008



Rehabilitation Projects

Southwestern Ontario Rehabilitation 2008

Map #	Hwy	Status	Location	Type of Work	Planned/ Expected Completion	Project Length (kms)
1	3 and 6	new	Big Creek, Delhi & Boston Creek Bridges, Hagersville	Bridge rehabilitations	2008	n/a
2	4	new	Hwy. 7 to Exeter	Culvert replacements, various locations	2008	n/a
3	6	underway	Fergus to Arthur	Reconstruction/bridge rehabilitations/passing lanes	2008	17
4	6	new	Arthur to Mt. Forest	Reconstruction/bridge rehabilitation-replacement/ passing lanes	2009	13
5	6	new	Argyle St. over the Grand River Bridge, Caledonia	Bridge rehabilitation	2008	n/a
6	6 and 21	new	Ferndale to Tobermory and Bruce Rd. 10 to Springmount	Culvert replacements, various locations	2008	n/a
7	9	new	Harriston to Bruce Rd. 7	Culvert replacements, various locations	2008	n/a
8	10	new	Markdale to Rd. 130	Resurfacing	2008	5
9	21	new	Lambton Rd. 7, north of Forest	Lighting	2008	n/a
10	23	new	Whalen Corners to Palmerston	Culvert replacements, various locations	2008	n/a
11	40	underway	Lambton Rd. 80 to Rokeby Line, Sarnia	Reconstruction/culvert rehabilitations/ intersection improvements	2008	5
12	40	new	Thames River Bridge, Chatham	Bridge rehabilitation	2008	n/a
13	77	new	Leamington to Staples	Reconstruction	2009	12
14	85	new	University Ave. to Waterloo Rd.15, Kitchener	Resurfacing, various locations	2008	n/a
15	401	new	Putnam Rd. to Pigram Rd., eastbound lanes, west of Ingersoll	Resurfacing, various locations	2008	n/a
16	401	new	Sweaburg Rd. westbound lanes, Woodstock	Resurfacing, various locations	2008	n/a
17	401	new	Hwy. 8 to Franklin Blvd., Cambridge	Resurfacing, various locations	2008	n/a
18	401	new	Highbury Ave. underpass, London	Bridge Rehabilitation/interchange resurfacing	2008	n/a
19	402	underway	Lambton Rd. 26 to Lambton Rd. 30, east of Sarnia (Border Infrastructure Fund project)	Reconstruction/ bridge rehabilitations/ reconstruction-commercial vehicle inspection facility	2008	10
20	402	new	Middlesex Rd. 2, Delaware & Colonel Talbot Rd., London and Middlesex Rd. 14, Mt. Brydges	Lighting	2008	n/a
21	Ferry Docks	new	Leamington, Pelee Island and Kingsville Ferry Docks	Docks scour rehabilitations	2009	n/a

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements

Rehabilitation Projects

Southwestern Ontario Rehabilitation 2009



Rehabilitation Projects

Southwestern Ontario Rehabilitation 2009

Map #	Hwy	Status	Location	Type of Work	Planned/ Expected Completion	Project Length (kms)
1	6	new	Grand River Bridge, Caledonia Bypass	Bridge rehabilitation	2009	n/a
2	6	new	Grey Rd. 9 to Durham	Resurfacing/passing lane	2009	11
3	8	new	Goderich to Clinton	Resurfacing/intersection improvements/ truck climbing lane	2010	17
4	8	new	Seaforth to Mitchell	Resurfacing/bridge rehabilitation	2010	16
5	21	new	Lambton Rd. 79 to Grand Bend	Resurfacing	2009	14
6	21	new	Hwy 9 to Tiverton	Resurfacing	2009	12
7	40	new	Hwy 401 to Longwoods Rd., south of Chatham	Resurfacing/bridge rehabilitation	2009	7

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Rehabilitation Projects

Southwestern Ontario Rehabilitation 2010 to 2012

Hwy	Status	Location	Type of Work	Project Length (kms)
3	new	Renton to Jarvis	Resurfacing	9
3	new	Grand River Bridge, Cayuga	Bridge replacement/rehabilitation	n/a
3	new	John Pound Rd. to Simcoe St., Tillsonburg	Resurfacing	4
3	new	Aylmer to Carter Rd.	Resurfacing	7
6	new	Hanlon Expressway, Guelph	Intersection improvements	3
6	new	Mar to Ferndale	Culvert replacements/rehabilitations, various locations	n/a
6	new	Tobermory southerly	Resurfacing	n/a
7	new	Middlesex Rd. 50 to Perth Rd. 9, St. Marys	Resurfacing	17
7	new	Guelph to Wellington Rd. 28	Resurfacing/bridge rehabilitation	7
8	new	Perth Rd. 135 to Stratford	Resurfacing/bridge rehabilitation	8
10	new	Dufferin Cty. Rd. 10, north of Orangeville	Intersection improvements	n/a
10	new	Shelbourne to Primrose	Resurfacing	5
21	new	Huron Rd. 84 to Bayfield	Resurfacing	16
21	new	Goderich to Sheppardton	Resurfacing	9
21	new	Shashawanda Creek Bridge, north of Forest	Bridge replacement/rehabilitation	n/a
21 and 6	new	Amberley northerly, various locations and Shallow Lake Bridge	Bridge rehabilitations	n/a
23	new	Thames River Tributary and Flat Creek bridges, north of Mitchell	Bridge replacement/rehabilitation	n/a
24	new	Brant Rd. 53 To Hwy 403, west of Brantford	Resurfacing/bridge replacement	5
26	new	Thornbury to Meaford	Resurfacing/passing lane	10
26	new	Woodford to Meaford	Resurfacing/truck climbing lane	10
40	new	Wallaceburg to Kent Rd. 33, north of Chatham	Resurfacing/bridge rehabilitations	2
40	new	Petrolia Line to Churchill Rd., Sarnia	Resurfacing/bridge rehabilitations	5
40	new	Chatham to Wallaceburg, various locations	Bridge rehabilitations/replacements	n/a

continued...

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Rehabilitation Projects

Southwestern Ontario Rehabilitation 2010 to 2012

Hwy	Status	Location	Type of Work	Project Length (kms)
85	new	Lancaster St. to Waterloo Rd.15, Kitchener-Waterloo	Resurfacing/bridge rehabilitations	8
89	new	Conn to Grand Valley	Resurfacing/bridge replacement	18
401	new	Kent Rd. 2 and Dillon Rd. underpasses, east of Tilbury	Bridge rehabilitations	n/a
401	new	Dunborough Rd., Blacks Rd., & Furnival Rd. underpasses, south of London	Bridge rehabilitations	n/a
401	new	Hwy 6, Wellington Rd. 35 and 32 underpasses, south of Guelph	Bridge rehabilitations	n/a
401	new	Hespler Rd., southbound underpass, Cambridge	Bridge rehabilitation	n/a
402	new	Lambton Rd. 22 (London Line), Warwick and Middlesex Rd. 81 (Centre Rd.), Strathroy	Bridge rehabilitations	n/a

NOTE: Project timing is subject to change based on funding, planning, design, environmental approval, property acquisition and construction requirements.

Planning for the Future

Projects Beyond 2012

The Southern Highways Program outlines the projects that will be constructed over the next five years. These projects will ensure that we continue to support growth and address existing highway congestion by expanding and enhancing safety and efficiency on our highways.

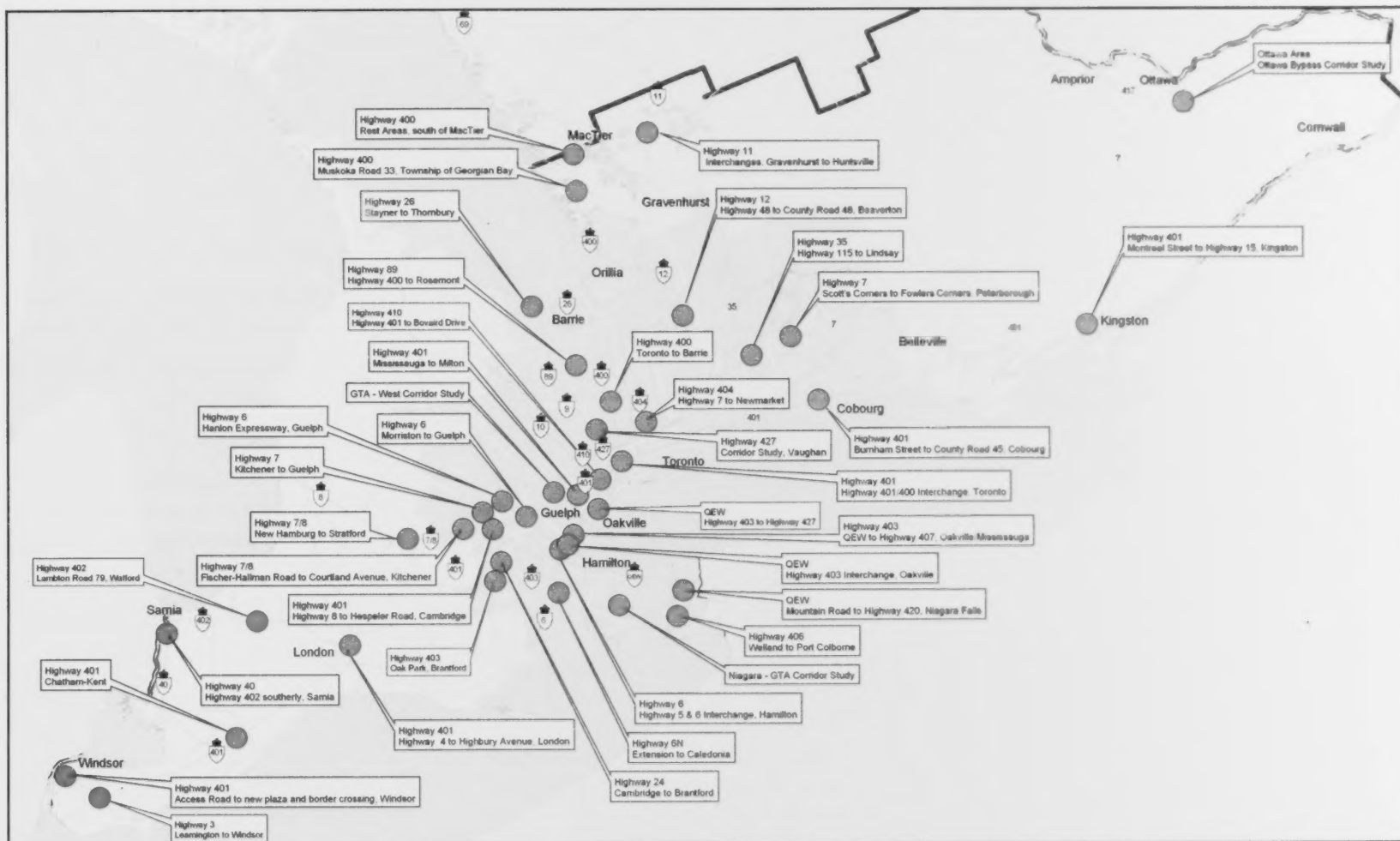
The government is very aware of the need to plan for the long term to ensure a first-class transportation infrastructure for the future. The Ministry of Transportation continuously evaluates anticipated transportation needs. Potential future directions include:

- Optimizing, expanding or extending existing highways
- Developing new highway corridors
- Identifying and implementing transportation solutions on strategic transportation corridors
- Evaluating options for transit and other modes of transportation.

Identified on the following page and on the “Planning for the Future” map are some projects in the planning stages to support growth and economic activities, improve traffic flow and enhance safety in southern Ontario. While the list includes projects that are not part of the current five-year construction plan, they are subject to further study and prioritization and may be considered for future construction.

In addition, the Ontario government is working in partnership with Canada, the United States and the State of Michigan on the Detroit River International crossing, and is committed to working with these partners to deliver a new river crossing, access road and inspection plazas by 2013.

Future Southern Ontario Projects



Planning for the Future

Future Southern Ontario Projects

Highway	Description
3	Leamington to Windsor, Phase 3
5/6	Interchange, Hamilton
6	Morrison to Guelph
6	Hanlon Expressway, Guelph
6N	Extension to Caledonia
7	Kitchener to Guelph
7	Scott's Corners to Fowlers Corners, Peterborough
7/8	New Hamburg to Stratford
7/8	Fischer-Hallman Road to Courtland Avenue, Kitchener
11	Gravenhurst to Huntsville, interchanges
12	South Jct. Highway 48 to north Jct. County Rd. 48, Beaverton
24	Cambridge to Brantford
26	Stayner to Thornbury
35	Hwy 115 to Lindsay
40	Hwy 402 southerly, Sarnia
89	Hwy 400 to Rosemont
400	Toronto to Barrie
400	Rest areas, south of MacTier
400	Muskoka Road 33, Township of Georgian Bay
401/400	Interchange, Toronto

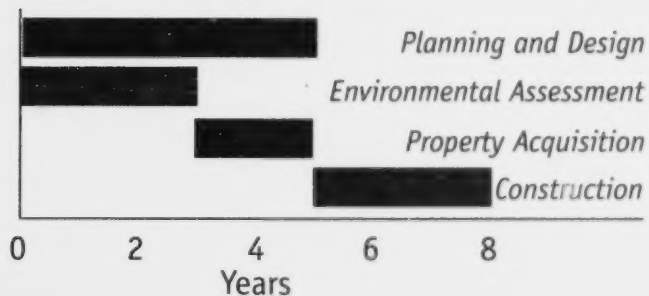
Highway	Description
401	Mississauga to Milton
401	Hwy 402 to Hwy 4, London
401	Chatham-Kent
401	Hwy 8 to Hespeler Road, Cambridge
401	Montreal Street to Hwy 15, Kingston
401	Burnham Street to County Road 45, Cobourg
402	Lambton Road 79, Watford
403	QEW to Hwy 407, Oakville/Mississauga
403	Oak Park Road, Brantford
404	Hwy 7 to Newmarket
406	Welland to Port Colborne
410	401 to Bovaird Drive
427	Corridor study, Vaughan
GTA-West	Corridor Study
Niagara-GTA	Corridor Study
Ottawa	Bypass corridor study
QEW	McLeod Road to Mountain Road, Niagara Falls
QEW	Hwy 403 interchange, Oakville
QEW	Hwy 403 to Hwy 427

Planning for the Future

The Highway Planning Process

Planning, design and construction can take up to eight or more years for highway expansion and 10 years or more to build new highways. While this process seems lengthy, it is necessary to: ensure the appropriate solution is selected; reduce the environmental impact of construction; protect the rights of property owners; and ensure design and construction standards are met.

During the **planning stage**, area transportation studies are conducted to identify transportation system problems or deficiencies and possible future actions to address these issues. These actions may include additional transportation studies or the initiation of the **Environmental Assessment (EA)** process to look at transportation needs and alternatives in detail. All public undertakings must receive provincial EA approval. Federal EA approvals may also be required. An EA is conducted to consider natural, economic and social impacts.



Typical Time lines for Highway Expansion Projects

- Smaller highway projects, with predictable and manageable environmental effects, go through a **Class EA** process that requires one to three years to complete. It is an MTO-led process that does not require Ministry of the Environment (MOE) approval.
- Larger and more complex projects such as new transportation corridors with potential for greater environmental impacts, are subject to an **Individual EA** process that requires formal MOE review and Ministerial/Cabinet approval. This process can take about five years to complete and may involve analysis of all transportation alternatives (road, transit, rail, marine) and alternative new route locations.

The design stage for both Individual and Class EA projects are subject to MTO's Class EA process.

Preliminary design studies include the environmental assessment of broad transportation alternatives and specific highway improvement options.

The next stage, **detail design**, undertakes engineering tasks such as surveying, testing for soil conditions, determining construction material requirements, and designing interchanges, bridges, and culverts.

Once the EA has been approved, **property acquisition** can begin. This can take up to 18 months if expropriation becomes necessary or longer yet, should a property owner appeal expropriation through a Hearing of Necessity. In the Hearing, the Crown must prove sound justification for expropriation.

Timing and duration of **highway construction** depends on numerous factors, including size and complexity of the project, funding availability, property availability, and timing of environmental clearances and permits. Typically, a new four-lane highway is completed in phases, taking two to three years for each section. Timing and duration can also be affected by special circumstances such as legislation protecting fish spawning or bird nesting periods. In urban settings, much work is done at night or off-peak hours to minimize traffic delays.

During all stages of highway planning and construction, the Ministry of Transportation works collaboratively with a wide range of provincial and federal departments; municipalities; transportation, economic and environmental interest groups; First Nation communities; and the general public.



